Canon projector SX6/SX60/X600 User Commands

ver. 01.0100/05   2005.12.27
ver. 01.0100/04   2005.12.5
ver. 01.0100/03   2005.11.14
ver. 01.0100/02   2005.11.10
ver. 01.0100/01   2005.11.1

I. Version revision history

Numerical value	Date	Description of revised version	Where revised
01.0100/01	2005.11.01	Version first created.	
01.0100/02	2005.11.10	Version number of User Commands changed to "01.0100."	Entire document
		Listing of the parameters for each command changed to the listing obtained by the "RANGE" command.	Entire document
		"Character interval timeout" in communication specifications changed from 10ms to 5 seconds (timeout between CR and LF is 10ms).	PAGE 2
		"GUID" in "User Command System" changed to "GUIDE."	PAGE 8
		"GUID" in "Command List" changed to "GUIDE.	PAGE 12
		Condition added to "RC/MAIN commands" as a condition for returning from power management standby in "Power Management Mode."	PAGE 11
		"AUTOSETEXE" command changed from a "setting" command to a "control" command.	PAGE 12, 17
		"Auto screen color correction" of the "AUTOSETEXE" command changed to "automatic screen color correction."	PAGE 17
		Error response information added in "Response" of the "AUTOSETEXE" command.	PAGE 17
		Condition for disabling "INPUT" execution added to "Description" of the "AUTOSETEXE" command.	PAGE 17
		The fact that the screen color correction (WB) is to be adjusted after executing automatic screen color correction added to "Description" of the "AUTOSETEXE" command.	PAGE 17
		Support for the D-Video input of the SX6/SX60/X600 in the "Supported (command) states" of the "HPIX/VPIX" commands revised.	PAGE 24
		Support for the SX6/SX60/X600 in the "Supported (command) states" of the "ASPECT" command revised.	PAGE 26
		The fact that settings are to be performed by the system for the SX6/SX60/X600 added to the description of the "WBRGB" command.	PAGE 37
		Support for no signals of the SX50 in the "Supported (command) states" of the "VKS/HKS" commands revised.	PAGE 48
		"ZSTEPDRV," "ZCONTDRV," "FSTEPDRV" and "FCONTDRV" commands changed from "control" commands to "setting" commands.	PAGE 12,65~68
		"GET ERR" removed from "(4) Zoom/focus stop commands" in the "ZCONTDRV" and "FCONTDRV" commands.	PAGE 66,68
		Commands for responding normally while drive is maintained added in the "ZCONTDRV" and "FCONTDRV" commands.	PAGE 66,68
		"GUID" parameter of "GET" command changed to "GUIDE."	PAGE 72,115
		"NOSHOWSTATUS" parameter of "GET" command changed to "NOSHOWSTATE."	PAGE 72,118
		Support for the D-Video of the SX6/SX60/X600 in the "Supported (command) states" of the "GET HPIX/VPIX" commands revised.	PAGE 80
		Action to be taken when D-Video, SCART or none is applicable in the "Supported (command) states" of the "GET ASPECT" command revised.	PAGE 82
		Action to be taken when no SX50 signals are provided in the "Supported (command) states" of the "GET VKS/HKS" commands revised.	PAGE 101
		Description of the version information obtained by "GET COMVER" command added.	PAGE 125
		"GUID" parameter of "RANGE" command changed to "GUIDE."	PAGE 126,170
		Support for the local mode of the SX6/SX60/X600 in the "Supported (command) states" of the "RANGE POWER" command revised.	PAGE 128
		Support for the local mode of the SX6/SX60/X600 in the "Supported (command) states" of the "RANGE INPUT" command revised.	PAGE 131
		Support for the D-Video of the SX6/SX60/X600 in the "Supported (command) states" of the "RANGE HPIX/VPIX" commands revised.	PAGE 135
		Action to be taken when D-Video, SCART or none is applicable in the "Supported (command) states" of the "RANGE ASPECT" command revised.	PAGE 137
		Action to be taken when no SX50 signals are provided in the "Supported (command) states" of the "RANGE VKS/HKS" commands revised.	PAGE 156
01.0100/03	2005.11.14	Pressing of POWER button added to the conditions for clearing BLANK of the "BLANK" command.	PAGE 18
		Listing of the parameters in "Example" of the "RANGE ZSTEPDRV" command revised.	PAGE 173
		Listing of the parameters in "Example" of the "RANGE ZCONTDRV" command revised.	PAGE 174
		"INPUT_NOT_FOUND" added to "Error List."	PAGE 177
01.0100/04	2005.12.05	The fact that the guide display is not cleared in "Remote mode" added.	PAGE 14
		Support for the SX6/SX60/X600 in the "Supported (command) states" of the "ASPECT" command revised.	PAGE 26
		Operation performed when "GUIDE-OFF" is received in "Remote mode" added.	PAGE 62
		Processing to be undertaken for the "GET MODE" command in cases where zoom or focus lens drive is underway deleted.	PAGE 73
		Processing to be undertaken for the "GET POWER" command in cases where zoom or focus lens drive is underway deleted.	PAGE 74
		Support for the local mode of the SX6/SX60/X600 in the "Supported (command) states" of the "GET MUTE" command revised.	PAGE 103
		Processing to be undertaken for the "GET LAMPCOUNTER" command in cases where zoom or focus lens drive is underway deleted.	PAGE 121
		Processing to be undertaken for the "GET PRODCODE" command in cases where zoom or focus lens drive is underway deleted.	PAGE 123
		Processing to be undertaken for the "GET ROMVER" command in cases where zoom or focus lens drive is underway deleted.	PAGE 124
		Processing to be undertaken for the "GET COMVER" command in cases where zoom or focus lens drive is underway deleted.	PAGE 125
01.0100/05	2005.12.27	In "2. Communication System," "Time out" described separately for SX50 and SX6/SX60/X600.	PAGE 2
		Statuses of SX6/SX60/X600, TRUE and A-RGB1 in the "Supported (command) states" of the "ASPECT" command changed from "x" to "O."	PAGE 26
		The fact that the response to the "ZCONTDRV" command in cases where zoom drive is underway is "unconditionally" i:BUSY clearly indicated.	PAGE 66
		The fact that the response to the "FCONTDRV" command in cases where focus drive is underway is "unconditionally" i:BUSY clearly indicated.	PAGE 68
		"BUSY (FOCUS)" and "BUSY (ZOOM)" priority levels raised.	PAGE 177

II. Contents

1. Overview

- These specifications describe the methods of controlling the projector from the PC over an RS-232C connection
- Virtually all operations possible with the remote control can be controlled from the PC
- The following symbols are used in these specifications.

Symbol	Description
△	Space with 0 or more characters (20h), Tab (09h), or other separator
□	Space with 1 or more characters (20h), Tab (09h), or other separator
▽	Separator between parameters △ , △ │ □
[ ]	The data in [ ] can be omitted.
│	Same as OR
:＝	The definition name is on the left side of this mark, and the definition description is on the right side.

2. Communication Specifications

Communication system

Item	Specifications
Communication system	RS-232-C Start-stop synchronization Semi-duplex communicatior
Transmission speed	19.2Kbps
Character length	8 bits/character
Stop bit	2 bits
Parity	None
Transmission format	Variable-length record with terminal as delimiter
Maximum transmission length	Maximum of 256 characters (bytes) including delimiters
Delimiters	Delimiters are one of CR, LF, CR+LF, Null (0) (Delimiters are identified automatically.) Response delimiters are identical to command delimiters.
Transmission codes	ASCII code (General-purpose characters: 20h to 7Fh), Tab (09h) (Codes other than those above and delimiters are considered "other separator codes") Uppercase and lowercase of alphabetic characters are considered the same character. Double-byte characters and single-byte characters are not distinguished. All are considered single-byte characters.
Communication procedure	No procedure
Flow control	None
Error control	None
Break signal	Not supported
Time out	Tc Character :10ms * For the SX50 interval :5S (Timeout between CR and LF is 10ms.) * For the SX6, SX60 or X600 Tr Command/response interval:10S

Connection Specifications

PC - Projector connection status

Item	Specifications
Connection system	PC: Connected on a "1:1" basis with the projector
Connection signal line	3-line connection of SD, RD, and SG
Connection cable	Dedicated cable The connection diagram is here.

Send data SD — SD Send data
Receive data RD — RD Receive data

Signal ground SG — SG Signal ground

※ In the projector, none of the signal lines except for the three lines of SD, RD and SG are used!
※ If necessary, loop back its own signals at the PC side.

Control Mode

The projector has two control modes, the **local mode** and **remote mode**.
Most user commands are used in **REMOTE mode**.
The two modes are set by the REMOTE and LOCAL commands.

LOCAL mode   REMOTE command →   REMOTE mode
                  ← LOCAL command
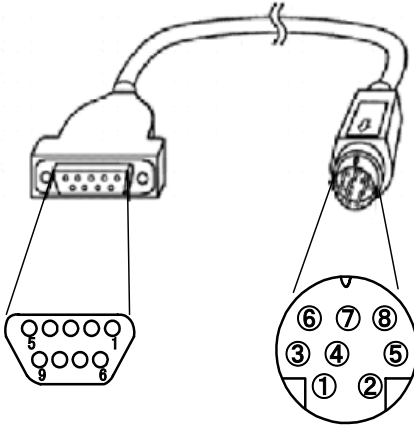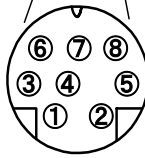
・Initial mode of projector
・The available user commands are limited.

・ Except for RC and MAIN, all user commands are available in this mode.
・ None of the remote control and main unit panel buttons except for POWER can be used.
・ Control is switched to this mode by the REMOTE command.

Communication system

Communication between the PC and projector is performed by the projector responding by **sending a response** to the **command sent** from the PC.
If AC power is supplied to the projector, communication is possible regardless of whether the power is on or off.

PC   Projector

Commands →

← **Response**

Commands	Request transmissions sent from PC to the projector
Transmission format	**△<Command character strings> △<Delimiters>**

<Command character strings>	Character strings consisting of 0 or more alphanumeric characters	Reference Command List
<Delimiters>	One of CR (0Dh), LF (0Ah), CR+LF (0Dh+0Ah), Null (00h)	

Type	Type		Description	Response
Null	Null Commands Character string		Commands with a command character string length of 0. No command processing is performed. **<Null command character string>:= <Character string with length 0>**	■ OK □ BUSY ■ WARN ■ ERR □ GET □ RANGE
Control	Control command Character string		Projector control command. The format is shown below. **<Control command character string>:= <Control name>□<Parameter value>**	■ OK ■ BUSY ■ WARN ■ ERR □ GET □ RANGE
Setting	Setting command Character string		Command that sets values for each parameter. The format is shown below. **<Setting command character strings>:= <Parameter name>△=△<Parameter value>** For the definition of <Parameter value>, refer to "Parameter definitions."	■ OK ■ BUSY ■ WARN ■ ERR □ GET □ RANGE
Reference	Reference command Character string		Requests current value of each parameter. The format is shown below. **<Reference command character string>:=? △<Parameter name> | GET□<Parameter name>**	□ OK ■ BUSY ■ WARN ■ ERR ■ GET □ RANGE
			Requests range which can be set for each parameter. The format is shown below. **<Range request command character string>:= RANGE□<Parameter name>**	□ OK ■ BUSY ■ WARN ■ ERR □ GET ■ RANGE

Response	Transmissions sent from Projector to PC in response to commands from PC		

<Response character string> <Delimiter>

<Response character string>	Character strings consisting of one or more ASCII characters. The first two characters are always <one lowercase letter>: The first character indicates the response type.		

Response type	Meaning	Example
i	State response	i:OK i:BUSY etc.
w	Warning	w:USER_COMMAND..
e	Error	e:000B INVALID..
g	Reference command response	g:AVOL=10
r	Range request command response	r:VKS=N, -50, 50

<Delimiters>	Delimiters for commands sent from PC

Type	Description
OK OK response	After processing of each command is completed, a response is sent indicating that the next command can be received. **<OK response character string>:=i:OK**
BUSY BUSY response	This response is sent when a command cannot be received during processing. Wait for a few moments, and then try sending the command again. **<BUSY response character string>:=i:BUSY** Example: > IMAGE=2 < i:BUSY
WARN WARN response	This response is sent when warning information is issued. **Note that this command cannot be executed.** **<Warning response character string>:= w:<Warning description>** Example: > IMAGE=2 < w:USER_COMMAND_VERSION_IS_UPDATED
ERR ERR response	An error message is output. **<Error response character string>:= e:<Error code>□<Error message>** ※ <Error code> is expressed as a four-digit hexadecimal number. ※ Refer to "Error List"! Example: > abcdefg < e:0002 INVALID_COMMAND
GET GET response	Request response for each parameter. **<GET response character string>:=g<Parameter name>=<Value>** Example: > GET LANG or ? LANG < g:LANG=JPN
RANGE RANGE response	This is the settable range response for each parameter. **<Range response character string> := r:<Parameter name>=<Type>, <Setting value range>** ※ <For <Setting value range> refer to the RANGE command. Example: > RANGE CONT < r:CONT=N, -20, 20

Other Transmission recognition	Transmission is recognized when delimiter is received. Even if a maximum transmission length is received, the entire received transmission will be lost unless a delimiter is received.
Parameter **value** **Definition**	The <Parameter value> is defined as shown below. **<Parameter value>:=<Value 1>▽<Value 2> ▽.. ▽ <Value n>** **<Value> := <Numerical value> | <ID> | "<Character string>"** <Numerical value> := [<Sign>] <Decimal character string (Min. 1 character to Max. 5 characters)> The range of valid values is **-32768 to 32767**. <ID> := 1 or more ASCII characters (20h to 7Fh) <Character string> := 0 or more ASCII characters (20h to 7Fh)
Cable	The connection diagram (example) for the cable connecting the PC and projector is shown below.

PC
D-SUB 9pin FEMALE

PJ
MINI DIN 8pin MALE

Sample 2

PC		PJ
SHIELD	⟷	SHIELD
1 CD (DCD)		
2 RD (RXD)	←	3 SD (TXD)
3 SD (TXD)	→	5 RD (RXD)
4 ER (DTR)		
5 SG (GND)	⟷	4 SG (GND)
6 DR (DSR)		
7 RS (RTS)		
8 CS (CTS)		
9 CI (RI)		

Example of self-loopback connections when the "CS" and "DR" pins are used in the connector of the PC.

Sample 1

PC		PJ
SHIELD	⟷	SHIELD
1 CD (DCD)	←	
2 RD (RXD)	←	3 SD (TXD)
3 SD (TXD)	→	5 RD (RXD)
4 ER (DTR)		
5 SG (GND)	⟷	4 SG (GND)
6 DR (DSR)		
7 RS (RTS)	→	2 NC
8 CS (CTS)	←	1 RS(RTS)
9 CI (RI)		
		6 NC
		7 NC
		8 NC

Canon's standard cable is used for these connections.
Do not use the "RS" pin in the connector of the PC!

Sample 3

PC		PJ
SHIELD	⟷	SHIELD
1 CD (DCD)		
2 RD (RXD)	←	3 SD (TXD)
3 SD (TXD)	→	5 RD (RXD)
4 ER (DTR)		
5 SG (GND)	⟷	4 SG (GND)
6 DR (DSR)		
7 RS (RTS)		
8 CS (CTS)		
9 CI (RI)		

Example of minimally required connections.

3. Communication Flow

Transmission sent	At the sending side (PC), the transmission is sent within character intervals of Tc (character interval timeout).
Transmission received	At the receiving side (Projector), data able to be received within the character interval of Tc is held, and receiving of a delimiter is considered "transmission received". If a received character interval exceeds Tc or a delimiter is not received within 256 characters, all data already received is lost, and the mode is reset to receive standby again.
Command/ Response	One response is always returned for each command sent from the PC. (However, note that a response may not be returned when the internal receive buffer overflows due to reception of a large amount of data.) PC Projector Commands → Within Tr ← Response *The timeout interval between command and response (Tr) is 10 seconds.
Response reception timeout	If a response is not received within Tr (timeout interval between command and response) while in response reception standby after sending a command at the PC, resend the command in the "response reception timeout".

4. Command System

SX50. User Command System

Mode change

| Switch to Remote mode | REMOTE |
| Switch to Local mode | LOCAL |

Setting/Control

Display setting

| Input select | INPUT |
| Input signal settings | |

Total number of dots adjustment	DOTS
Tracking adjustment	TRACK
Horizontal/Vertical position adjustment	HPOS/VPOS
Horizontal/Vertical resolution adjustment	HPIX/VPIX

Input signal selection	SEL
Screen settings	ASPECT
Auto PC	AUTOPC
Menu display position setting	
User screen setting	

*User commands use only automatic selection of input signals.

*Running of Auto PC will change the values set in "Input signal settings".

User screen registration	
User image position	LOGOPOS
Input when no signal	NOSIG
Screen when nothing shown	NOSHOW
Startup screen	PJON

| Flip display | IMAGEFLIP |

Image adjustment

| Image quality select | IMAGE |

*This is set for each input signal and image quality.

Brightness setting	BRI
Contrast setting	CONT
Sharpness setting	SHARP
Gamma correction	GAMMA
Dynamic gamma	DGAMMA
Progressive	PROG
Screen color correction	WB

| RGB adjustment | WBRGB |

Color saturation setting	SAT
Hue setting	HUE
Advanced color adjustment	ACADJUST

| 6-axis adjustment | 6AXR～Y |

| Lamp mode setting | LAMP |

| Image adjustment reset | RESET | RESET IMAGE |

System setting

Terminal setting	TERMINAL
Power management	PMM
Electronic sound	BVOL
Key lock	KEYLOCK
Password registration	
Password setting	
Remote control setting	RCCH
Language setting	LANG
Reset	RESET	RESET SYSTEM

Remote control/Key

Power supply	POWER
Input switching	INPUT
Keystone	VKS/HKS
Auto PC	AUTOPC
Spotlight	
Volume adjustment	AVOL
Digital zoom	
Image quality select	IMAGE
Audio mute	MUTE
No show status setting	
Freeze image	
Presentation timer setting	

*Running of Auto PC will change the values set in "Input signal settings".

*Same as "Setting/Control"-"Image Adjustment"-"Image Quality Select".

Emulate

| Remote control emulate | RC |
| Key emulate | MAIN |

Reference

| Retrieve each data | GET |
| Setting range request | RANGE |

※ ▭ Indicates functions that are available in the menu but not available in the user commands.

SX6, SX60 or X600 User Command System

Mode change
- Switch to Remote mode — REMOTE
- Switch to Local mode — LOCAL

Setting/Control

- Display setting
  - Input select — INPUT
  - Input signal settings
    - Total number of dots adjustment — DOTS
    - Tracking adjustment — TRACK
    - Horizontal/Vertical position adjustment — HPOS/VPOS
    - Horizontal/Vertical resolution adjustment — HPIX/VPIX
  - Input signal selection — SEL
  - Screen settings — ASPECT
  - Auto PC — AUTOPC
  - Menu display position setting
  - Screen color correction — WB
    - RGB adjustment — WBRGB
  - Progressive — PROG
  - User screen setting
    - User screen registration
    - User image position — LOGOPOS
    - Screen when no signal — NOSIG
    - Screen when nothing shown — NOSHOW
    - Startup screen — PJON
  - Flip display — IMAGEFLIP

  *User commands use only automatic selection of input signals.

  *Running of Auto PC will change the values set in "Input signal settings".

- Image adjustment
  - Image quality select — IMAGE
    - Brightness setting — BRI
    - Contrast setting — CONT
    - Sharpness setting — SHARP
    - Gamma correction — GAMMA
    - Color adjustment
      - Color saturation setting — SAT
      - Hue setting — HUE
      - Gain adjustment — RGBGAIN
      - Offset adjustment — RGBOFFSET
    - Advanced adjustment
      - Dynamic gamma — DGAMMA
      - Memory color correction — MEMCADJ
      - 6-axis color adjustment — 6AXADJ
        - 6-axis adjustment — 6AXR~Y
    - Lamp mode setting — LAMP
  - Image adjustment reset — RESET   RESET IMAGE

  *This is set for each input signal and image quality.

- System setting
  - Auto setup
  - Power management mode — PMM
  - Direct power-on — DPON
  - Electronic sound — BVOL
  - Key lock — KEYLOCK
  - Language setting — LANG
  - Guide — GUIDE
  - LED illumination — LEDILLUMINATE
  - Other settings
    - Remote control setting — RCCH
    - Password setting
    - Password registration
    - Lamp counter reset — RESET   RESET LAMPTIME
    - Factory settings — RESET   RESET SYSTEM

Remote control/Key
- Power supply — POWER
- Auto set — AUTOSETEXE
- Image quality select — IMAGE
- Input switching — INPUT
- Auto PC — AUTOPC
- Focus — FCONTDRV
  - FSETPDRV
- Zoom — ZCONTDRV
  - ZSETPDRV
- Keystone — VKS/HKS
- Digital zoom
- Spotlight
- No show status setting — BLANK
- Audio mute — MUTE
- Volume adjustment — AVOL
- Freeze image
- Presentation timer setting

*Same as "Setting/Control"-"Image Adjustment"-"Image Quality Select".

*Running of Auto PC will change the values set in "Input signal settings".

Emulate
- Remote control emulate — RC
- Key emulate — MAIN

Reference
- Retrieve each data — GET
- Setting range request — RANGE

※ ▢ Indicates functions that are available in the menu but not available in the user commands.

5. Control Mode

The table below shows the states and limitations of the LOCAL and REMOTE control modes.

Mode \ Item	LOCAL mode	REMOTE mode
Description	Mode where projector control/operation is performed by the main unit or remote control. Initial mode when microcomputer is started.	Mode where projector control/operation is performed by a PC or other external device. (The PC or other external device is connected by a serial cable.)
LED — Status	State indicator	Constant remote indicator ※2
LED — ALM	ALM state indicator	ALM state indicator
Transition method	・AC power supply to projector ・Manual power on/off ・LOCAL command ・Power management standby/exit mode transfer	・REMOTE command
Operation buttons — Main unit keys	All available	Only POWER button is available
Operation buttons — Remote control keys	All available	Only POWER button is available
Operation buttons — Emulation	Available ※1	Not available
Power management standby and exit modes ※3 — Switching	5 minutes elapsed from no signal	Operation is as follows depending on the model.
Power management standby and exit modes ※3 — Return	・Signal input ・Remote control button pressed ・Main unit button pressed ・Emulation	・REMOTE command

In the REMOTE mode Switching cell:

Model	Operation
SX50	・ No switching to standby or exit mode.
SX6 SX60 X600	・ 5 minutes elapsed from no signal ・ Control is switched to "local mode" after mode switching.

Commands supported:

For the SX50

Command/parameter	Remarks
REMOTE	
LOCAL	
GET MODE	
MAIN	
RC	

For the SX6, SX60 or X600

Command/parameter	Remarks
GET COMVER	
GET ERROR	
GET FREEZE	
GET INPUT	
GET LAMPCOUNTER	
GET MODE	
GET MUTE	
GET NOSHOWSTATUS	
GET POWER	
GET PRODCODE	
GET ROMVER	
GET SIGNALSTATUS	
LOCAL	
MAIN	
RC	
REMOTE	

Commands supported — REMOTE mode: All commands except for "RC" and "MAIN"

Special mode (Service mode):
- LOCAL mode: Executable with remote control or main unit buttons
- REMOTE mode: Not executable in any state

*1 However, switching to the USB mouse function or Special mode is not allowed.
*2 If the control mode is REMOTE, the following are displayed regardless of whether the power is on or off.
*3 When the power management setting is "standby" or "exit"

LED indicator pattern during REMOTE mode
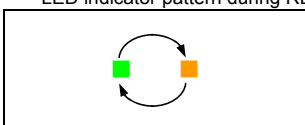
6. Key/Emulation function

The table below shows how the main unit/remote control keys and emulation function operate in each control mode

Key/Emulation	LOCAL mode			REMOTE mode		
	Unlock	Remote control lock	Main unit key lock	Unlock	Remote control lock	Main unit key lock
Remote control	O	×	O	POWER only	×	POWER only
Main unit keys	O	O	×	POWER only	POWER only	×
Remote control emulation	O	O	O	×	×	×
Main unit key emulation	O	O	O	×	×	×

7. Power Management Mode

Concerning the processing for switching to the power management standby or exit mode in the remote or local mode

Mode	SX50	SX6/SX60/SX600
Remote	The power management standby or exit mode is not established. (No countdown is initiated.)	The power management standby or exit mode is established when no signals are supplied for at least 5 The countdown is aborted by any command other than GET/RANGE. Control is switched to the "local mode" in the standby or exit mode.
Local	The power management standby or exit mode is established when no signals are supplied for at least 5 minutes.	

Events for returning from standby mode
・Signal input
・Pressing of a button on main unit or remote control
・REMOTE command
・RC/MAIN command (excluding RC/MAIN*-REP)
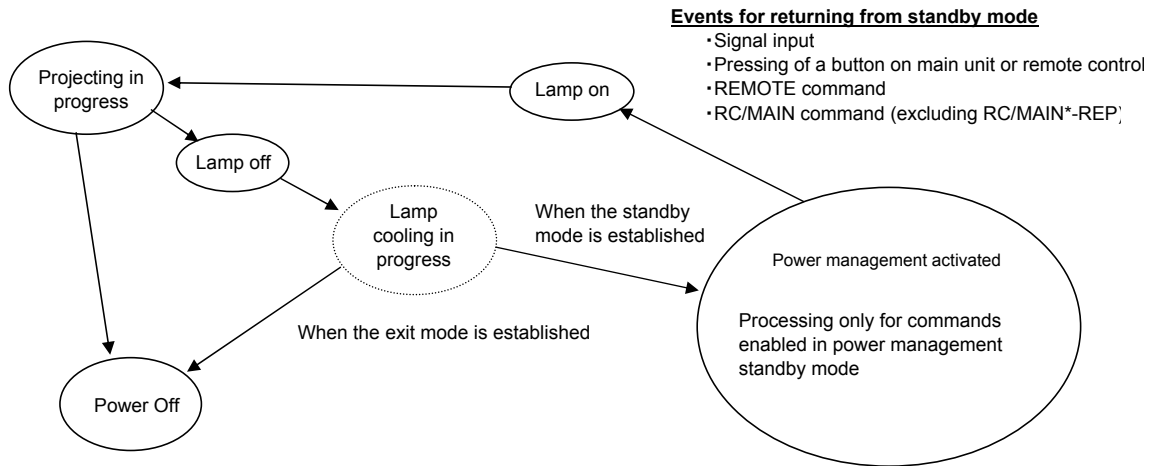
8. Command List

Item	Commands	Description	Command type			
			Mode	Control	Setting	Reference
1	REMOTE	Switching to Remote mode	O			
2	LOCAL	Switching to Local mode	O			
3	POWER	Power supply control		O		
4	AUTOSETEXE	Auto setup execution		O		
5	BLANK	BLANK function			O	
6	INPUT	Input terminal select			O	
7	AUTOPC	Auto PC execution		O		
8	DOTS	Total number of dots adjustment			O	
9	TRACK	Tracking adjustment			O	
10	HPOS	Horizontal position adjustment			O	
11	VPOS	Vertical position adjustment			O	
12	HPIX	Horizontal resolution adjustment			O	
13	VPIX	Vertical resolution adjustment			O	
14	SEL	Input signal selection			O	
15	ASPECT	Screen settings			O	
16	IMAGE	Image mode			O	
17	BRI	Brightness setting			O	
18	CONT	Contrast setting			O	
19	SHARP	Sharpness setting			O	
20	GAMMA	Gamma correction			O	
21	DGAMMA	Dynamic gamma			O	
22	PROG	Progressive			O	
23	WB	Screen color correction			O	
24	WBRGB	Screen color correction (RGB adjustment)			O	
25	SAT	Color saturation setting			O	
26	HUE	Hue setting			O	
27	RGBGAIN	RGB gain adjustment			O	
28	RGBOFFSET	RGB offset adjustment			O	
29	ACADJUST	Advanced color adjustment			O	
30	ACADJUST	Memory color correction			O	
31	6AXADJ	6-axis adjustment ON/OFF			O	
32	6AXR	R setting			O	
33	6AXG	G setting			O	
34	6AXB	B setting			O	
35	6AXC	C setting			O	
36	6AXM	M setting			O	
37	6AXY	Y setting			O	
38	LAMP	Lamp mode setting			O	
39	RESET	Reset		O		
40	VKS	Trapezoid adjustment (vertical keystone)			O	
41	HKS	Trapezoid adjustment (horizontal keystone)			O	
42	AVOL	Volume adjustment			O	
43	MUTE	Mute			O	
44	BVOL	Beep sound setting			O	
45	IMAGEFLIP	Flip display control			O	
46	PMM	Power management			O	
47	PJON	Display screen at startup setting			O	
48	NOSIG	Display screen when no signal setting			O	
49	NOSHOW	Display screen setting when nothing shown			O	
50	LOGOPOS	User image position setting			O	
51	LANG	Language selection			O	
52	TERMINAL	Terminal setting			O	
53	KEYLOCK	Key lock setting			O	
54	RCCH	Remote control setting			O	
55	GUIDE	Guide setting			O	
56	DPON	Direct power-on setting			O	
57	LEDILLUMINATE	Emotional LED and signal sensing LED lighting control			O	
58	ZSTEPDRV	Zoom lens step drive control			O	
59	ZCONTDRV	Zoom lens continuous drive control			O	
60	FSTEPDRV	Focus lens step drive control			O	
61	FCONTDRV	Focus lens continuous drive control			O	
62	RC	Remote control operation emulation		O		
63	MAIN	Front panel button operation emulation		O		
64	GET	Retrieve data				O
65	RANGE	Setting range request				O

Note: Items 8–13 are grouped under "Input signal settings". Items 32–37 are grouped under "6-axis color adjust".

9. Details of command

Descriptions of each command are provided starting from the next page.
The command descriptions have the format shown below.

※Command type

Commands	* Alphabetic command name				Mode	Control	Setting	Reference
Function	* This briefly describes the command function.							
Format	* This indicates the command format.							
Parameter	* This explains the required parameters for the command.						Parameter types	
Response	* This describes the command response.							
Description	* This includes the command function, conditions, and notes.							
Example	* This provides command usage examples.							
Commands supported	SX50 01.****	SX6 11.****	SX60 11.****	X600 11.****				
	O	O	O	O				
	* Indicated here are the commands supported by each model (and user command version). "O": supported; "x": not supported.							

Supported Command States   * This defines the environments that support the command (power supply state, input signal state, control mode).

Model	Power			Input								Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
×	O	×	×	×	×	×	O	O	O	×	O	×	×	O	×	

The command is enabled in states marked by "O".

The command is enabled in control modes marked by "O".

"O" when the power supply state is enabled while power management is in standby.   Input signal is required when "×".

"O" when power supply state is ON.

"O" when power supply state is OFF.

Commands	**REMOTE**		Mode	~~Control~~	~~Setting~~	~~Reference~~
Function	Switch to Remote mode					
Format	**REMOTE**					
Parameter	None					
Response	"i:OK" is returned when it was possible to switch the mode properly. For all other responses, refer to "Error List."					
Description	This switches to Remote mode. -1 During Remote mode, all buttons are disabled except for the front panel and remote control POWER button. -2 This command can be used in any projector mode. However, zoom or focus lens drive stops if the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -3 If, in the power management standby status, the "REMOTE" command was received and operation was switched to the remote mode, the "power-on" (lamp lighted) status is established unconditionally. -4 With the SX50, the setting, control and reference commands except for RC and MAIN can be used only in the remote mode. (RC and MAIN can be used only in the "local mode.") With the SX6, SX60 and X600, there are several setting, control and reference commands which can be used in the local mode. (Refer to the LOCAL command.) -5 When this command is executed, all the statuses and settings listed below are cleared. 　・Digital zoom 　・Presentation timer display 　・Spotlight display 　・Screen temporary off (NoShow) 　・Freeze image (Freeze) 　・Command now being executed (except during "user image registration") 　・Focusing, zooming underway (with the SX6, SX60 and X600) -6 "Guide display" is not cleared by the transfer of operation to the remote mode. If necessary, clear the display using the GUIDE command. -7 The current mode can be referenced using the applicable GET command.					
Example	Mode switching > REMOTE < i:OK Mode viewing > GET MODE or < g:MODE=LOCAL * Commands are indicated by ">", and responses are indicated by "<".					

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	○	○	○	○	○	○	○	○	○	–	–	○	○	○	
SX6 SX60 X600	○	○	○	○	○	○	○	○	○	○	○	○	○	○	

Commands	**LOCAL**		Mode	~~Control~~	~~Setting~~	~~Reference~~
Function	Switch to Local mode					
Format	**LOCAL**					
Parameter	None					
Response	"i:OK" is returned when it was possible to switch the mode properly. For all other responses, refer to "Error List."					
Description	This switches to Local mode. -1 The following commands can be used while the local mode is established. -2 This command can be used in any projector mode. 　　However, zoom or focus lens drive stops if the zoom or focus lens is being driven. 　　(Refer to the ZCONTDRV command and FCONTDRV command.) -3 The current mode can be referenced using the applicable GET command. -4 The "BLANK status" is cleared. Refer to BLANK command.					

In the Description section:

	Errors supported by model			
Command/parameter	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**
REMOTE	O	O	O	O
LOCAL	O	O	O	O
GET MODE	O	O	O	O
GET COMVER	×	O	O	O
GET ERR	×	O	O	O
GET FREEZE	×	O	O	O
GET INPUT	×	O	O	O
GET LAMPCOUNTER	×	O	O	O
GET MUTE	×	O	O	O
GET NOSHOWSTATUS	×	O	O	O
GET POWER	×	O	O	O
GET PRODCODE	×	O	O	O
GET ROMVER	×	O	O	O
GET SIGNALSTATUS	×	O	O	O
MAIN	O	O	O	O
RC	O	O	O	O

Example	Mode switching 　> LOCAL 　< i:OK Mode viewing 　> GET MODE or ?MODE 　< g:MODE=LOCAL * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	O	O	O	O	O	O	O	O	O	–	–	O	O	O	
SX6 SX60 X600	O	O	O	O	O	O	O	O	O	O	O	O	O	O	

Commands	**POWER**		~~Mode~~	Control	~~Setting~~	~~Reference~~
Function	This controls the power supply					
Format	**POWER□<Parameter:ID>**					

Parameter			
Parameter	Parameter	Meaning	ID
	ON	Power ON	
	OFF	Power OFF	

The parameters which can be controlled at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description This performs ON/OFF control of the power supply.

-1 This command is identical to pressing the POWER button on the remote control or main unit.
-2 Provided that the **remote mode** is established, the command can be executed in any projector status.
  However, zoom or focus lens drive stops if the zoom or focus lens is being driven.
  (Refer to the ZCONTDRV command and FCONTDRV command.)
-3 After sending this command, use GET POWER to obtain the power supply state at regular intervals, and check that it is in the controlled state (off or on).
-4 The table below shows the POWER command responses according to the power supply state.

POWER Command Responses by
Power Supply State

Status \ Commands	POWER ON	POWER OFF
Off	○	○
Off -> lighted	○	○
Lamp on	○	○
Lighted -> off	△	○
Lighted -> standby	○	○
In standby	○ ※	○
Standby -> lighted	○	○

○ : i:OK
△ : i:BUSY

-5 The current power supply status can be referenced using the applicable GET command.
  For details, refer to the GET command.

Example Control
 > POWER ON
 < i:OK

Reference
 > GET POWER or ?POWER
 < g:POWER=OFF

Acquisition of parameters which can be set
 > RANGE POWER
 < r:POWER=I,ON,OFF

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	○	○	○	○	○	○	○	○	○	–	–	○	○	×	
SX6	○	○	○	○	○	○	○	○	○	○	○	○	○	×	
SX60															
X600															

* "i:BUSY" may be returned if the power status is being switched.

Commands	**AUTOSETEXE**	~~Mode~~	Control	~~Setting~~	~~Reference~~

Function	Auto setup

Format	**AUTOSETEXE□<Auto set parameter:ID>**

Parameter — Auto set parameters

Parameter	Meaning
FOCUS	Auto focusing
VKS	Auto keystone (vertical) execution
SCRN	Automatic screen color correction execution
INPUT	Automatic signal sensing execution

The parameters which can be controlled at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

ID

Response — "i:OK" is returned when the automatic processing was completed successfully.
One of the following responses is returned if an error has been detected at any part of the auto setup.

Type	Error response
FOCUS	e:F002 SYSTEM (FOCUS)
VKS	e:F004 SYSTEM (AUTO_KEYSTONE)
SCRN	e:F005 SYSTEM (SCREEN_COLOR)

For all other responses, refer to "Error List."

Description — This command is used to execute auto setup.

(1) It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
However, a "busy" response is given while the zoom or focus lens is being driven.
（Refer to the ZCONTDRV command and FCONTDRV command. ）
(2) There are no parameters to be executed together. Execute them separately.
(3) It is not possible to execute auto setup in some projector statuses.

Type	Statuses in which auto setup cannot be executed	Remarks
FOCUS	Auto setup cannot be executed while "BLANK" is underway.	Refer to the BLANK command.
VKS	—	
SCRN	Auto setup cannot be executed while "BLANK" is underway.	Refer to the BLANK command.
INPUT	Auto setup cannot be executed if there are no input signals.	

(4) When automatic screen color correction (SCRN) has been completed successfully, the screen color correction (WB) is set to "ADJUST."

Example — Setting
　> AUTOSETEXE FOCUS　　　　　　　　Auto focusing is executed.
　< I:OK

Acquisition of parameters which can be set
　> RANGE AUTOSETEXE
　<r:AUTOSETEXE=I, FOCUS, VKS, SCRN, INPUT

＊Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	×	○	○	○			

When a command is not supported, "e:0002 INVALID_COMMAND" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50		—					—							—	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

＊When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	**BLANK**		~~Mode~~	~~Control~~	Setting	~~Reference~~

Function	BLANK function

Format	**BLANK=\<BLANK parameter:ID\>**

Parameter	BLANK parameters	ID

Parameter	Meaning
ON	BLANK ON
OFF	BLANK OFF

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description	This command is used to set the BLANK function. (1) This command functions only when the projector is in the "**remote mode**." It cannot be executed by a menu operation or button operation. However, a "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command. ） (2) Only a black screen is displayed. (3) No input signals and none of the on-screen displays appear while BLANK is underway. (4) The "display setting," "image adjustment" and other commands can be executed even while BLANK is underway. However, the "AUTOSETEXE=FOCUS" and "AUTOSETEXE=SCRN" commands cannot be executed. Refer to the AUTOSETEXE command. (5) The BLANK function is released in the following situations. 　a. When the POWER button on the remote control or panel has been pressed 　b. When power management standby countdown has started 　c. When the mode has been switched from remote to local 　d. Power Off (6) The current BLANK settings can be obtained using the GET command. For details, refer to the GET command.

Example	Setting

   > BLANK=ON   BLANK is set to ON.
   < i:OK

Reference
   > GET BLANK or ?BLANK   The current BLANK status is referenced.
     g:BLANK=ON

Acquisition of parameters which can be set
   > RANGE BLANK
   < r:BLANK=I, OFF, ON

*Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**			
	×	○	○	○			

When a command is not supported, "e:0002 INVALID_COMMAND" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50		—						—						—	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	**INPUT**							Mode	Control	Setting	Reference

Function	Input selection

Format	**INPUT=<Input selection parameters：ID>**

Parameter Input selection parameters

Parameter	Meaning	Errors supported by model				ID
		SX50	SX6	SX60	X600	
D-RGB	D-RGB	○	○	○	○	
A-RGB1	A-RGB1	○	○	○	○	
A-RGB2	A-RGB2	○	○	○	○	
COMP	Component	○	○	○	○	
VIDEO	Video	○	○	○	○	
S-VIDEO	S-Video	○	○	○	○	
D-VIDEO	Digital Video	×	○	○	○	
SCARTRGB	SCART(RGB)	×	○	○	○	

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description This controls the input selection.

-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
A "busy" response is given while the zoom or focus lens is being driven.
(Refer to the ZCONTDRV command and FCONTDRV command.)
-2 This command has the same function as the buttons listed in the table below.

Model	Button
SX50	「Computer-1」、「 〃 -2」、「VIDEO/S」
SX6	
SX60	INPUT
X600	

-3 When the model SX50 is used, "A-RGB2" and "COMP" cannot be selected if "OUT" has been set using the TERMINAL command. ('e:1001 TERMINAL_OUT' is returned.)
-4 When the model SX6, SX60 or X600 is used, the input can be selected automatically using the auto setup command (AUTOSETEXE=INPUT).
Refer to the AUTOSETEXE command.
-5 The current input can be acquired using the applicable GET command.
For details, refer to the GET command.

Example Setting
> INPUT=VIDEO   VIDEO input selection
< i:OK

Reference
> GET INPUT or ?INPUT   This retrieves the input signal
< g:INPUT=A-RGB1

Acquisition of parameters which can be set
> RANGE INPUT
< r:INPUT=I, D-RGB, A-RGB1, A-RGB2, COMP, VIDEO, S-VIDEO, D-VIDEO, SCARTRGB

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input								None	Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART		Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6	×	○	×	○	○	○	○	○	○	○	○	○	○	×	
SX60															
X600															

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**AUTOPC**		~~Mode~~	Control	~~Setting~~	~~Reference~~
Function	Auto PC					
Format	**AUTOPC**					
Parameter	None					
Response	'i:OK' is returned when control has been executed successfully. For all other responses, refer to "Error List."					

Description	Auto PC execution -1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) Furthermore, it may not be possible to execute the command with some input signals. -2 This command is identical to pressing the "AUTOPC" button on the remote control or front pane -3 Execution of this command may modify the following setting values. ・Total number of dots ・Tracking ・Horizontal/vertical positions ・Number of horizontal/vertical display dots -4 To confirm modified setting values, use the GET command of the respective parameter. For details, refer to the GET commands below.

Setting	GET
Total number of dots	GET DOTS
Tracking	GET TRACK
Horizontal position	GET HPOS
Vertical position	GET VPOS
Number of horizontal display dots	GET HPIX
Number of vertical display dots	GET VPIX

Example	> AUTOPC < i:OK * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	○	○	×	×	×	–	–	×	○	×	
SX6 SX60 X600	×	○	×	×	○	○	×	×	×	×	×	×	○	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**DOTS**	Mode	Control	Setting	Reference

Function	Total number of dots adjustment

Format	**DOTS=<Number of dots: Number>**	
Parameter	Number of dots The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.	Number
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."	

Description	1 This designates the total number of dots for one horizontal period. -1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) Furthermore, it may not be possible to execute the command with some input signals. -2 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Display settings] - [Input signal settings] - [Total number of dots adjustments]
SX6	
SX60	[Display settings] - [Input signal settings] - [Total number of dots]
X600	

-3 The GET command can be used to obtain the current total number of dots.
For details, refer to the GET command.

Example	Setting
	  > DOTS=1650 The total number of dots is 1650.
	  < i:OK
	
	Reference
	  > GET DOTS or ?DOTS This retrieves the total number of dots.
	  < g:DOTS=1200
	
	Obtain settable parameter range (Min, Max)
	  > RANGE DOTS
	  < r:DOTS=N, 0, 4096 Any value from 0 to 4096 can be set for the total dots.
	
	* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input								Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	○	○	×	×	×	–	–	×	○	×	
SX6	×	○	×	×	○	○	×	×	×	×	×	×	○	×	
SX60															
X600															

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.
* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.
* "i:BUSY" may be returned if the power status is being switched.

Commands	**TRACK**	~~Mode~~	~~Control~~	Setting	~~Reference~~
Function	Tracking adjustment				
Format	**TRACK=<Adjustment value: Number>**				
Parameter	Adjustment value The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.			Number	
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."				
Description	This is used for adjustment when tracking (synchronization) is out of sync and the screen flickers. -1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. 　A "busy" response is given while the zoom or focus lens is being driven. 　(Refer to the ZCONTDRV command and FCONTDRV command.) 　Furthermore, it may not be possible to execute the command with some input signals. -2 This command is the same as the menu functions in the table below. 	Model	Menu | 　　|---|---| 	SX50	[Display settings] - [Input signal settings] - [Tracking] | 	SX6	| 	SX60	[Display settings] - [Input signal settings] - [Tracking] | 	X600	| -3 The GET command can be used to retrieve the current tracking adjustment values. 　For details, refer to the GET command.				
Example	Setting 　> TRACK=25　　　　　　　　　　　The tracking adjustment value is set to 25. 　< i:OK Reference 　> GET TRACK or ?TRACK　　　　　This retrieves the tracking adjustment setting value. 　< g:TRACK=21 Obtain settable parameter range (Min, Max) 　> RANGE TRACK 　< r:TRACK=N, 0, 31　　　　　　　Any value from 0 to 31 can be set for the tracking. * Commands are indicated by ">", and responses are indicated by "<".				
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**	
	○	○	○	○	

Supported Command States

Model	Power			Input								Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	○	○	×	×	×	–	–	×	○	×	
SX6 SX60 X600	×	○	×	×	○	○	×	×	×	×	×	×	○	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**HPOS/VPOS**					~~Mode~~	~~Control~~	Setting	~~Reference~~
Function	Horizontal/Vertical position adjustment								
Format	**HPOS=<Horizontal position: Number>** **VPOS=<Vertical position: Number>**								
Parameter	Horizontal/vertical positions The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.							Number	
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."								
Description	This adjusts the horizontal and vertical position on the screen. -1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) Furthermore, it may not be possible to execute the command with some input signals. -2 This command is the same as the menu functions in the table below. <table><tr><td>Model</td><td>Menu</td></tr><tr><td>SX50</td><td>[Display settings] - [Input signal settings] - [Horizontal position] [Display settings] - [Input signal settings] - [Vertical position]</td></tr><tr><td>SX6 SX60 X600</td><td>[Display settings] - [Input signal settings] - [Horizontal position] [Display settings] - [Input signal settings] - [Vertical position]</td></tr></table> -3 The GET command can be used to retrieve the current horizontal and vertical position. For details, refer to the GET command.								
Example	Setting > HPOS=12 This sets the horizontal position to 12. < i:OK Reference > GET VPOS or ?VPOS This acquires the vertical position. < g:VPOS=8 Obtain settable parameter range (Min, Max) > RANGE HPOS < r:HPOS=N, 0, 820 Any value from 0 to 820 can be set for the horizontal position. * Commands are indicated by ">", and responses are indicated by "<".								
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**					
	O	O	O	O					

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	×	O	O	×	×	×	–	–	×	O	×	
SX6 SX60 X600	×	O	×	×	O	O	×	×	×	×	×	×	O	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**HPIX/ VPIX**	Mode	Control	Setting	Reference

Function	Horizontal/Vertical resolution adjustment

Format	**HPIX=<Horizontal resolution: Number>** **VPIX=<Horizontal resolution: Number>**

Parameter	Horizontal/vertical resolution The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.	Number

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description	This adjusts the horizontal and vertical resolution (number of dots) on the screen. -1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) Furthermore, it may not be possible to execute the command with some input signals. -2 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Display settings] - [Input signal settings] - [No. of horizontal display dots] [Display settings] - [Input signal settings] - [No. of vertical display dots]
SX6 SX60 X600	[Display settings] - [Input signal settings] - [No. of horizontal dots] [Display settings] - [Input signal settings] - [No. of vertical dots]

-3 The GET command can be used to retrieve the current horizontal and vertical position.
For details, refer to the GET command.

Example	Setting 　> HPIX=1024 This sets the horizontal resolution to 1024. 　< i:OK Reference 　> GET VPIX or ?VPIX This retrieves the vertical resolution. 　< g:VPIX= 864 Obtain settable parameter range (Min, Max) 　> RANGE VPIX 　< r:VPIX=N, 0, 1000 Any value from 0 to 1000 can be set for the horizontal resolution. * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	×	×	×	–	–	×	O	×	
SX6 SX60 X600	×	O	×	O	O	O	×	×	×	×	×	×	O	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	SEL		Mode	Control	Setting	Reference
Function	Input signal selection					
Format	**SEL=<Input signal selection parameter: ID>**					

Parameter | Input signal selection parameter

Parameter	Meaning
AUTO	Auto

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

ID

Response | "i:OK" is returned if the parameter was set properly.
For all other responses, refer to "Error List."

Description | This selects the input signal.

-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
A "busy" response is given while the zoom or focus lens is being driven.
(Refer to the ZCONTDRV command and FCONTDRV command.)
Furthermore, it may not be possible to execute the command with some input signals.
-2 This command takes effect only with the "AUTO" parameter setting.
-3 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Display settings] - [Input signal selection] - [Auto]
SX6	
SX60	[Display settings] - [Input signal selection] - [Auto]
X600	

-4 The current input signal can be acquired using the applicable GET command.
For details, refer to the GET command.

Parameter	Remarks
PAL	Includes PAL-M and PAL-N
SECAM	
NTSC	Includes NTSC4.43
1080i	Includes 540p (1080i non-interlaced signal)
1035i	
720p	
575p	
480p	
575i	Includes 288p (PAL non-interlaced signal)
480i	Includes 240p (NTSC non-interlaced signal)
UNKNOWN	No-color, 1080p, and other signals

List of signals which can be detected

Example | Setting
> SEL=AUTO This sets the input signal selection to "AUTO".
< i:OK

Reference
> GET SEL or ?SEL This retrieves the input signal.
< g:SEL=575p

Acquisition of parameters which can be set
> RANGE SEL
< r:SEL=I, AUTO Only "AUTO" can be set for the input signal selection.

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	×	×	○	○	○	–	–	×	○	×	
SX6	×	○	×	×	×	×	○	○	○	×	×	×	○	×	
SX60															
X600															

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.
* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.
* "i:BUSY" may be returned if the power status is being switched.

Commands	ASPECT		~~Mode~~	~~Control~~	Setting	~~Reference~~

Function	Screen settings

Format	**ASPECT=<Screen setting parameters:ID>**

Parameter — Screen setting parameters

Parameter	Meaning	Errors supported by model				ID
		SX50	SX6	SX60	X600	
AUTO	Auto	○	○	○	○	
NORMAL	Normal	○	–	–	–	
WIDE	Wide	○	○	○	○	
FULL	Full screen	○	○	○	○	
TRUE	Real	○	○	○	○	ID

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description	This sets the screen sizes.

-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
   A "busy" response is given while the zoom or focus lens is being driven.
   (Refer to the ZCONTDRV command and FCONTDRV command.)
   Furthermore, it may not be possible to execute the command with some input signals.
-2 The final screen settings are retained even when the power is turned off. However, the screen settings may be different if the input terminal or input signal is changed.
-3 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Display settings] - [Screen settings]
SX6	
SX60	[Display settings] - [Aspect ratio]
X600	

-4 The GET command can be used to retrieve the current screen display mode.
   For details, refer to the GET command.

Example

Setting
> ASPECT=WIDE   This sets the screen size to WIDE.
> i:OK

Reference
> GET ASPECT or ?ASPECT   This retrieves the screen size.
< g:ASPECT=TRUE

Acquisition of parameters which can be set
> RANGE ASPECT
< r:ASPECT=I, AUTO, NORMAL, WIDE   "AUTO," "NORMAL" or "WIDE" can be set as the screen size.

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Parameter	Power			Input									Mode	
		OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local
SX50	AUTO	×	○	×	×	×	×	○	×	×	–	–	○	○	×
	NORMAL	×	○	×	○	○	○	○	○	○	–	–	○	○	×
	WIDE	×	○	×	○	○	○	○	○	○	–	–	○	○	×
	FULL	×	○	×	○	○	○	×	×	×	–	–	○	○	×
	TRUE	×	○	×	○	○	○	×	×	×	–	–	×	○	×
SX6 SX60 X600	AUTO	×	○	×	○	○	○	○	×	×	○	×	○	○	×
	WIDE	×	○	×	○	○	○	○	○	○	○	○	○	○	×
	FULL	×	○	×	○	○	○	○	○	○	○	○	○	○	×
	TRUE	×	○	×	○	○	○	×	×	×	×	×	×	○	×

▼

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.
* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.
* "i:BUSY" may be returned if the power status is being switched.

Commands	**IMAGE**					Mode	Control	Setting	Reference

Function	Image mode setting

Format	**IMAGE=<Image mode setting parameter：ID>**

Parameter Image mode setting parameters

Parameter	Meaning	Errors supported by model				ID
		SX50	SX6	SX60	X600	
STANDARD	Standard	○	○	○	○	
PRESENTATION	Presentation	○	○	○	○	
CINEMA	Cinema	○	×	×	×	
SRGB	sRGB	○	○	○	○	
ADOBE	ADOBE RGB	×	○	×	×	
MOVIE	Movie	×	×	○	○	
MOVIE_PHOTO	Movie & Photo	×	○	×	×	
HOME_CINEMA	Home theater	×	×	○	×	

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description This sets the image quality.

-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
　A "busy" response is given while the zoom or focus lens is being driven.
　(Refer to the ZCONTDRV command and FCONTDRV command.)
-2 The final settings for the image mode are retained even when the power is turned off.
-3 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Image adjustments] - [Image mode settings]
SX6	
SX60	[Image adjustments] - [Image mode settings]
X600	

-4 Changing the setting may modify the following setting values.

Setting	Commands related to the settings	Remarks
Brightness	BRI	
Contrast	CONT	
Sharpness	SHARP	
Gamma adjustment	GAMMA	
Dynamic gamma	DGAMMA	
Progressive	PROG	
Screen color correction/RGB adjustment values	WB/ WBRGB	For the SX50
Saturation/hue	SAT/ HUE	
Advanced color adjustment	ACADJUST	For the SX50
Memory color correction	MEMCADJ	For the SX6, SX60 or X600
RGB gain/offset adjustments	RGBGAIN/RGBOFFSET	For the SX6, SX60 or X600
6-axis color adjust	6AXR~Y	

-5 The current image quality can be acquired using the applicable GET command.
　For details, refer to the GET command.

Example Setting
　> IMAGE=PRESENTATION　　　　　　　This sets the image mode to "Presentation."
　< i:OK

Reference
　> GET IMAGE or ?IMAGE　　　　　　　This references the current image mode.
　< g:IMAGE=CINEMA

Acquisition of parameters which can be set
　> RANGE IMAG
　< r:IMAGE=I, STANDARD, CINEMA, SRGB　"STANDARD," "CINEMA" or "SRGB" can be set as the image mode.

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**BRI**				Mode	Control	Setting	Reference
Function	Brightness setting							
Format	**BRI=<Brightness setting: Number>**							
Parameter	Brightness setting (-20 to 20) The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.						Number	
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."							
Description	This sets the screen brightness. -1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 This command is the same as the menu functions in the table below. <table><tr><td>Model</td><td>Menu</td></tr><tr><td>SX50</td><td>[Image adjustments] - [Brightness]</td></tr><tr><td>SX6</td><td></td></tr><tr><td>SX60</td><td>[Image adjustments] - [Brightness]</td></tr><tr><td>X600</td><td></td></tr></table> -3 The currently selected input signal and image mode are used for these settings. -4 The current brightness can be acquired using the applicable GET command. For details, refer to the GET command.							
Example	Setting > BRI=-10 This sets the brightness to -10. < i:OK Reference > GET BRI or ?BRI This retrieves the brightness. < g:BRI=-10 Obtain settable parameter range (Min, Max) > RANGE BRI < r:BRI=N, -20, 20 Any value from -20 to 20 can be set for the brightness. * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	O	O	O	O				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6	×	O	×	O	O	O	O	O	O	O	O	O	O	×	
SX60															
X600															

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**CONT**					Mode	Control	Setting	Reference
Function	Contrast setting								
Format	**CONT=<Contrast setting: Number>**								
Parameter	Contrast setting (-20 to 20) The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.								Number
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."								
Description	This sets the screen contrast. -1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 This command is the same as the menu functions in the table below. <table><tr><td>Model</td><td>Menu</td></tr><tr><td>SX50</td><td>[Image adjustments] - [Contrast]</td></tr><tr><td>SX6</td><td></td></tr><tr><td>SX60</td><td>[Image adjustments] - [Contrast]</td></tr><tr><td>X600</td><td></td></tr></table> -3 The currently selected input signal and image mode are used for these settings. -4 The current contrast can be acquired using the applicable GET command. For details, refer to the GET command.								
Example	Setting > CONT=3 This sets the contrast to +3. < i:OK Reference > GET CONT or ?CONT This retrieves the contrast. < g:CONT=3 Obtain settable parameter range (Min, Max) > RANGE CONT < r:CONT=N, -20, 20 Any value from -20 to 20 can be set for the contrast. * Commands are indicated by ">", and responses are indicated by "<".								
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**					
	O	O	O	O					

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**SHARP**			Mode	Control	Setting	Reference

Function	Sharpness setting	
Format	**SHARP=<Sharpness setting: Number>**	
Parameter	Sharpness setting (-4 to 4) The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.	Number
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."	

Description	This sets the screen sharpness.
	
	-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
	   A "busy" response is given while the zoom or focus lens is being driven.
	   (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 This command is the same as the menu functions in the table below.	

Model	Menu
SX50	[Image adjustments] - [Sharpness]
SX6	
SX60	[Image adjustments] - [Sharpness]
X600	

-3 This sets the currently selected input signal and image mode.
-4 The current sharpness can be acquired using the applicable GET command.
    For details, refer to the GET command.

Example	Setting	
	> SHARP=3	This sets the contrast to 3.
	< i:OK	
	Reference	
	> GET SHARP or ?SHARP	This retrieves the contrast.
	< g:SHARP=3	
	Obtain settable parameter range (Min, Max)	
	> RANGE SHARP	
	< r:SHARP=N, -4, 4	Any value from -4 to 4 can be set for the sharpness.
	* Commands are indicated by ">", and responses are indicated by "<".	

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GAMMA**						~~Mode~~	~~Control~~	Setting	~~Reference~~
Function	Gamma adjustment									
Format	**GAMMA=<Gamma adjustment: Number>**									
Parameter	Gamma adjustment (-4 to 4) The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.								Number	
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."									

Description	This performs the Gamma adjustment.
	
	-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
	   A "busy" response is given while the zoom or focus lens is being driven.
	   (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 This command is the same as the menu functions in the table below.
	
	            Model | Menu
	            SX50 | [Image adjustments] - [Gamma]
	            SX6
	            SX60 | [Image adjustments] - [Gamma]
	            X600
	
	-3 This sets the currently selected input signal and image mode.
	-4 The current gamma adjustment can be acquired using the applicable GET command.
	   For details, refer to the GET command.									

Example	Setting
	  > GAMMA=-1 This sets the gamma correction to –1.
	  < i:OK
	
	Reference
	  > GET GAMMA or ?GAMMA This retrieves the gamma correction.
	  < g:GAMMA=3
	
	Obtain settable parameter range (Min, Max)
	  > RANGE GAMMA
	  < r:GAMMA=N, -4, 4 Any value from -4 to 4 can be set for the gamma.
	
	* Commands are indicated by ">", and responses are indicated by "<".									

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**						
	O	O	O	O						

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	DGAMMA			~~Mode~~	~~Control~~	Setting	~~Reference~~

Function	Dynamic gamma

Format	**DGAMMA=<Dynamic gamma setting parameter:ID>**

Parameter Dynamic gamma setting parameters

Parameter	Meaning
0	OFF
1	ON

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

ID

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description The command is used to set the dynamic gamma function to ON or OFF.

-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
  A "busy" response is given while the zoom or focus lens is being driven.
  (Refer to the ZCONTDRV command and FCONTDRV command.)
-2 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Image adjustments] - [Dynamic gamma]
SX6	
SX60	[Image adjustments] - [Advanced adjustments] - [Dynamic gamma]
X600	

-3 This sets the currently selected input signal and image mode.
-4 The current dynamic gamma function status can be acquired using the applicable GET commar
  For details, refer to the GET command.

Example Setting
> DGAMMA=1   This sets the dynamic gamma function to ON.
< i:OK

Reference
> GET DGAMMA or ?DGAMMA   This retrieves the dynamic gamma function state.
< g:DGAMMA=1

Acquisition of parameters which can be set
> RANGE DGAMMA
< r:DGAMMA=I, 0, 1   The dynamic gamma can be set using "0" or "1."

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.
* "i:BUSY" may be returned if the power status is being switched.

Commands	**PROG**					Mode	~~Control~~	Setting	Reference
Function	Progressive setting								
Format	**PROG=<Progressive conversion setting parameters:ID>**								

Parameter	Progressive conversion setting parameters						

Progressive conversion setting parameters

Parameter	Meaning	Errors supported by model				ID
		SX50	SX6	SX60	X600	
0	OFF	○	○	○	○	
1	ON	○	○	○	○	
2	AUTO	×	○	○	○	

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description	This command is used to set the progressive conversion processing to ON or OFF.

-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
A "busy" response is given while the zoom or focus lens is being driven.
(Refer to the ZCONTDRV command and FCONTDRV command.)
Furthermore, it may not be possible to execute the command with some input signals.

-2 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Image adjustments] - [Progressive]
SX6	
SX60	[Display settings] - [Progressive]
X600	

-3 This sets the currently selected input signal and image mode.
-4 The menu display statuses are as listed in the table below by model.

Model	Menu display statuses, etc.
SX50	If the input signals are "Component" signals of any of the following types, the signals cannot be processed even when "ON" has been selected as the progressive conversion setting to perform progressive conversion. ·1080i ·720p ·480p ·1035i ·575p
SX6 SX60 X600	When signals from a progressive source have been input, the progressive conversion setting can be selected, but the field will be blank on the menu. If the input signals are "Component" signals of any of the following types, the signals cannot be processed even when "ON" or "AUTO" has been selected as the progressive conversion setting to perform progressive conversion, but the value on the menu will change. However, the value will be grayed out. ·1080i ·720p ·480p ·1035i ·575p

(Reference)
·1080i ·720p   ·480p   With the SX50, IP_NOT_AVAILABLE is returned for both
·1035i ·575p   referencing and setting in response to the signals on the left.

-5 The current value can be acquired using the applicable GET command. The significance of the acquired values is given in the table below.
For details, refer to the GET command.

Model	Significance of acquired value
SX50	Current progressive conversion processing status (1: conversion underway, 0: no conversion)
SX6	
SX60	Setting currently established for progressive conversion
X600	

Example	Setting

  > PROG=0   This sets the progressive conversion setting to OFF.
  < i:OK

Reference
  > GET PROG or ?PROG   This acquires the progressive conversion processing
  < g:PROG=1   status.

Acquisition of parameters which can be set
  > RANGE PROG
  < r:PROG=I, 0, 1, 2   "0," "1" or "2" can be selected as the progressive
                                               conversion setting.

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	×	×	×	O	O	O	–	–	×	O	×	
SX6	×	O	×	×	×	×	O	O	O	×	×	×	O	×	
SX60															
X600															

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**WB**			Mode	Control	Setting	Reference

Function	Screen color correction

Format	**WB=<Screen color correction parameters:ID>**

Parameter | Screen color correction parameters

Parameter	Meaning
NORMAL	Standard
GREENBOARD	Blackboard
ADJUST	Adjust

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

ID

Response
"i:OK" is returned if the parameter was set properly.
For all other responses, refer to "Error List."

Description
The screen color correction is set to "Normal", "Blackboard", or "Adjust".

-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
A "busy" response is given while the zoom or focus lens is being driven.
(Refer to the ZCONTDRV command and FCONTDRV command.)
-2 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Image adjustments] - [Screen color correction]
SX6	
SX60	[Display settings] - [Screen color correction]
X600	

-3 When "ADJUST" has been selected, adjust the RGB adjustment values using the WBRGB command.
-4 When the model SX50 is used, the currently selected input signal and image mode settings are established.
When the model SX6, SX60 or X600 is used, **a set of settings is established for the system**.
-5 The current screen color correction can be acquired using the applicable GET command.
For details, refer to the GET command.

Example
Control
> WB=NORMAL   This sets the screen color correction to "Normal".
< i:OK

Reference
> GET WB or ?WB   This retrieves the screen color correction.
< g:WB=GREENBOARD

Acquisition of parameters which can be set
> RANGE WB
< r:WB=I,NORMAL,GREENBOARD,ADJUST   "NORMAL," "GREENBOARD" or "ADJUST" can be
                                    set for the screen color correction.

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6	×	○	×	○	○	○	○	○	○	○	○	○	○	×	
SX60															
X600															

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**WBRGB**			Mode	Control	Setting	Reference

Function	Screen color correction (ADJUST)
Format	**WBRGB=<R adjustment value: Number>▽<G adjustment value: Number>▽<B adjustment value: Number>**
Parameter	RGB setting value (Each value –20 to 20) The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.	Number
Response	An 'i:OK' is returned after setting is successful. For all other responses, refer to "Error List."
Description	This sets the RGB adjustment values of the screen color correction. -1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 Although this setting is enabled when Adjustment (ADJUST) is selected by the screen color correction command (WB), it can be made independently. -3 This command is the same as the menu functions in the table below. | Model	Menu
SX50	[Image adjustments] - [Screen color correction] - [Adjustments]
SX6	
SX60	[Display settings] - [Screen color correction] - [Adjustments]
X600	| -4 With this command, the R, G, and B values can be set in a single operation. -5 When the model SX50 is used, the currently selected input signal and image mode settings are When the model SX6, SX60 or X600 is used, **a set of settings is established for the system**. -6 The GET command can be used to retrieve the current RGB adjustment values. For details, refer to the GET command.
Example	Setting > WBRGB=10, 11, 12 This sets R to 10, G to 11, and B to 12. < i:OK Reference > GET WBRGB or ?WBRGB This retrieves the RGB adjustment values. < g:WBRGB=-10, 0, 19 Obtain settable parameter range (Min, Max) > RANGE WBRGB < r:WBRGB=N,-20,20,-20,20,-20,20 Any value from -20 to 20 can be set for each color as the RGB adjustment values. * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**SAT**				~~Mode~~	~~Control~~	Setting	~~Reference~~
Function	Color saturation setting							
Format	**SAT=<Color saturation value setting: Number>**							

Parameter	Saturation setting (-20 to 20) The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.	Number

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description — This sets the screen color saturation.

-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
   A "busy" response is given while the zoom or focus lens is being driven.
   (Refer to the ZCONTDRV command and FCONTDRV command.)
   Furthermore, it may not be possible to execute the command with some input signals.
-2 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Image adjustments] - [Saturation]
SX6	
SX60	[Image adjustments] - [Color adjustments] - [Saturation]
X600	

-3 This sets the currently selected input signal and image mode.
-4 The GET command can be used to retrieve the current color saturation.
   For details, refer to the GET command.

Example

Setting
> SAT=-10   This sets the color saturation to –10.
< i:OK

Reference
> GET SAT or ?SAT   This retrieves the color saturation.
< g:SAT=1

Obtain settable parameter range (Min, Max)
> RANGE SAT
< r:SAT=N,-20,20   Any value from -20 to 20 can be set for the saturation.

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input								Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	×	×	○	○	○	–	–	○	○	×	
SX6	×	○	×	×	×	×	○	○	○	×	×	○	○	×	
SX60															
X600															

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.
* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.
* "i:BUSY" may be returned if the power status is being switched.

Commands	**HUE**			Mode	~~Control~~	Setting	Reference
Function	Hue setting						
Format	**HUE=<Hue setting value：Number>**						

Parameter	Hue setting (-20 to 20) The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.	Number

Response "i:OK" is returned if the parameter was set properly.
For all other responses, refer to "Error List."

Description This sets the screen hue.

-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
   A "busy" response is given while the zoom or focus lens is being driven.
   (Refer to the ZCONTDRV command and FCONTDRV command.)
   Furthermore, it may not be possible to execute the command with some input signals.
-2 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Image adjustments] - [Hue]
SX6	
SX60	[Image adjustments] - [Color adjustments] - [Hue]
X600	

-3 An input signal is required when "VIDEO" or "S-VIDEO" is selected.
-4 This sets the currently selected input signal and image mode.
-5 The GET command can be used to retrieve the current hue.
   For details, refer to the GET command.

Example Setting
  > HUE=8　　　　　　　　　　　　　　This sets the hue to +8.
  < i:OK

Reference
  > GET HUE or ?HUE　　　　　　　　　This retrieves the hue.
  < g:HUE=1

Obtain settable parameter range (Min, Max)
  > RANGE HUE
  < r:HUE=N,-20,20　　　　　　　　　　Any value from -20 to 20 can be set for the hue.

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	×	×	○	–	–	–	–	○	○	×	
							–	○	○			×			
SX6 SX60 X600	×	○	×	×	×	×	○	–	–	×	×	○	○	×	
							–	○	○			×			

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.
* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.
* "i:BUSY" may be returned if the power status is being switched.

Commands	**RGBGAIN**				~~Mode~~	~~Control~~	Setting	~~Reference~~

Function	RGB gain adjustment

Format	**RGBGAIN=<R gain setting：Number>▽<G gain setting：Number>▽<B gain setting：Number>**

Parameter	RGB gain settings (from -20 to 20 for each value) The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.	Number

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description	This command is used to adjust the gain of the R, G and B colors. (1) It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) (2) This command functions in the same way as when "Image adjustments" - "Color adjustments" - "Red/green/blue gain" are selected on the menu. (3) This sets the currently selected input signal and image mode. (4) The current RGB gain values can be obtained using the GET command. For details, refer to the GET command.

Example	Setting

> RGBGAIN=10, 11, 12   The R gain is set to 10, G gain to 11 and B gain to 12.
< i:OK

Reference
> GET RGBGAIN or ?RGBGAIN   The RGB gain values are obtained.
< g:RGBGAIN=-10, 0, 19

Obtain settable parameter range (Min, Max)
> RANGE RGBGAIN
< r:RGBGAIN=N,-20,20,-20,20,-20,20   A number from -20 to 20 can be set for each color as the RGB gain values.
*Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**			
	×	○	○	○			

When a command is not supported, "e:0002 INVALID_COMMAND" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	**RGBOFFSET**				~~Mode~~	~~Control~~	Setting	~~Reference~~

Function	RGB offset adjustment

Format	**RGBOFFSET=<R offset setting：Number>▽<G offset setting：Number>▽<B offset setting：Number>**

Parameter	RGB offset settings (-20 to 20 for each value) The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.	Number

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description	This command is used to adjust the offset of the R, G and B colors. (1) It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) (2) This command functions in the same way as when "Image adjustments" - "Color adjustments" - "Red/green/blue offset" are selected on the menu. (3) This sets the currently selected input signal and image mode. (4) The current RGB offset values can be obtained using the GET command. For details, refer to the GET command.

Example	Setting

> RGBOFFSET=10, 11, 12   The R offset is set to 10, G offset to 11 and B offset to 12.
< i:OK

Reference
> GET RGBOFFSET or ?RGBOFFSET   The RGB offset values are obtained.
< g:RGBOFFSET=-10, 0, 19

Obtain settable parameter range (Min, Max)
> RANGE RGBOFFSET
< r:RGBOFFSET=N,-20,20,-20,20,-20,20 A number from -20 to 20 can be set for each color as the RGB offset values.
*Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**			
	×	○	○	○			

When a command is not supported, "e:0002 INVALID_COMMAND" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	ACADJUST			Mode	Control	Setting	Reference

Function	Advanced color adjustment	
Format	**ACADJUST=<Advanced color adjustment parameter: ID>**	
Parameter	Advanced color adjustment parameters 	ID

Parameter	Meaning
NOCORRECT	No adjustment
MEM_L	Low memory color adjustment
MEM_M	Medium memory color adjustment
MEM_H	High memory color adjustment
6AX	6-axis adjustment

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."
Description	The advanced color correction method is set by selecting from "No correction", "Low to High memory color correction", and "6-axis adjustment". -1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 This command is identical to the Color balance function in the Image adj. menu. -3 In the case of "6-axis adjustment," set the hue and color saturation of each axis using the 6AXR to Y "6-axis correction R to Y hue/color saturation setting" commands. -4 This sets the currently selected input signal and image mode. -5 The GET command can be used to retrieve the current color compensation method. For details, refer to the GET command.
Example	Control > ACADJUST=MEM_M The color correction is set to "Medium memory color adjustment". < i:OK Reference > GET ACADJUST or ?ACADJUST This retrieves the color correction method. < g:ACADJUST=6AX Acquisition of parameters which can be set > RANGE ACADJUST < r:ACADJUST=I,NOCORRECT,MEM_L,MEM_M,MEM_H,6AX "NO CORRECT," "MEM_L," "MEM_M," "MEM_H" or "6AX" can be set as the color correction method. * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	×	×	×			

When a command is not supported, "e:0002 INVALID_COMMAND" is returned.

Supported Command States

Model	Power			Input								Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	×	×	×	O	O	O	–	–	O	O	×	
SX6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX60															
X600															

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.
* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.
* "i:BUSY" may be returned if the power status is being switched.

Commands	**MEMCADJ**		~~Mode~~	~~Control~~	Setting	~~Reference~~

Function	Memory color adjustment

Format	**MEMCADJ=<Memory color adjustment parameter：ID>**

Parameter — Memory color adjustment parameters

Parameter	Meaning
OFF	No adjustment
MEM_L	Low memory color adjustment
MEM_M	Medium memory color adjustment
MEM_H	High memory color adjustment

ID

The parameters which can be set at any given point in time can be obtained using the RANGE command.

For details, refer to the RANGE command.

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description

This command is used to select no adjustment (OFF), low (MEM_L), medium (MEM_M) or high (MEM_H) as the memory color adjustment setting.

(1) It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
However, a "busy" response is given while the zoom or focus lens is being driven.
(Refer to the ZCONTDRV command and FCONTDRV command.)

(2) This command functions in the same way as when "Image adjustments" – "Memory color adjustment" are selected on the menu.

(3) This sets the currently selected input signal and image mode.

(4) The current memory color adjustment setting can be obtained using the GET command.
For details, refer to the GET command.

Example

Control
> MEMCADJ=MEM_M   The color adjustment is set to "Medium memory color
< i:OK   adjustment".

Reference
> GET MEMCADJ or ?MEMCADJ   The memory color adjustment level is obtained.
< g:MEMCADJ=MEM_M

Acquisition of parameters which can be set
> RANGE MEMCADJ
< r:MEMCADJ=I,OFF,MEM_L,MEM_M,MEM_H   No adjustment (OFF), low (MEM_L), medium (MEM_M)
                                                              or high (MEM_H) can be set for the memory color
                                                              adjustment.
*Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**			
	×	○	○	○			

When a command is not supported, "e:0002 INVALID_COMMAND" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	6AXADJ				~~Mode~~	~~Control~~	Setting	~~Reference~~
Function	6-axis adjustment ON/OFF							
Format	**6AXADJ=<6-axis adjustment parameter:ID>**							

Parameter

Parameter	Meaning
ON	This sets the 6-axis adjustment to ON.
OFF	This sets the 6-axis adjustment to OFF.

The parameters which can be set at any given point in time can be obtained using the RANGE command.

For details, refer to the RANGE command.

ID

Response

"i:OK" is returned if the parameter was set properly.

For all other responses, refer to "Error List."

Description

This command is used to select ON or OFF for the 6-axis adjustment.

(1) It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
However, a "busy" response is given while the zoom or focus lens is being driven.
(Refer to the ZCONTDRV command and FCONTDRV command.)

(2) In the case of "6-axis adjustment," set the hue and color saturation of each axis using the 6AXR to Y "6-axis correction R to Y hue/color saturation setting" commands.

(3) This command functions in the same way as when "Image adjustments" – "6-axis adjustment" are selected on the menu.

(4) This sets the currently selected input signal and image mode.

(5) The current 6-axis adjustment setting can be obtained using the GET command.
For details, refer to the GET command.

Example

Control
> 6AXADJ=ON   The 6-axis adjustment is set to ON.
< i:OK

Reference
> GET 6AXADJ or ?6AXADJ   The 6-axis adjustment ON or OFF setting is obtained.
< g:6AXADJ=ON

Acquisition of parameters which can be set
> RANGE 6AXADJ
< r:6AXADJ=I,ON,OFF   The 6-axis adjustment can be set as "ON" or "OFF."

*Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**				
	×	○	○	○				

When a command is not supported, "e:0002 INVALID_COMMAND" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	**6AXR-Y**		~~Mode~~	~~Control~~	Setting	~~Reference~~
Function	6-axis correction R-Y hue/saturation settings					

Format	**6AXR=\<R hue: Number>▽\<R saturation: Number>** **6AXG=\<G hue: Number>▽\<G saturation: Number>** **6AXB=\<B hue: Number>▽\<B saturation: Number>** **6AXC=\<C hue: Number>▽\<C saturation: Number>** **6AXM=\<M hue: Number>▽\<M saturation: Number>** **6AXY=\<Y hue: Number>▽\<Y saturation: Number>**

Parameter	Setting values for hue and color saturation (–20 to 20) <u>\<Hue: Number></u>▽<u>\<Saturation: Number></u> The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.	Number

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description	This sets the 6-axis correction of the hue and color saturation for R to Y.
	
	-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
	    A "busy" response is given while the zoom or focus lens is being driven.
	    (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 These commands take effect when 6-axis adjustment (6AX) has been selected by the advanced color adjustment command (ACADJUST) or when they have been set to valid using the 6-axis adjustment command (6AXADJ), and they can be set separately.
	-3 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Image adjustments] - [Advanced color adjustments] - [6-axis color adjustments]
SX6 SX60 X600	[Image adjustments] - [Advanced adjustments] - [6-axis color adjustments] - [Adjustments]

-4 This sets the currently selected input signal and image mode.
-5 The current color adjustment values can be acquired using the applicable GET commands.
   For details, refer to the GET command.

Example	Setting > 6AXR=-8, 5	The R hue is set to –8, and the color saturation is set to 5.
	< i:OK	
	Reference > GET 6AXR or ?6AXR < g:6AXR=12, -8	This retrieves the R hue and color saturation.
	Obtain settable parameter range (Min, Max) > RANGE 6AXC < r:6AXC=N,-20,20,-20,20	Any value from -20 to 20 can be set for the hue and saturation of the C (cyan) color.
	* Commands are indicated by ">", and responses are indicated by "<".	

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**LAMP**			~~Mode~~	~~Control~~	Setting	Reference
Function	Lamp output setting						

Format	**LAMP=<Lamp output setting parameters：ID>**

Parameter Lamp output setting parameters

Parameter	Meaning
NORMAL	Normal
SILENT	Silent cooling

ID

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response "i:OK" is returned if the parameter was set properly.
For all other responses, refer to "Error List."

Description This command is used to set the light quantity of the lamp to "NORMAL" or "SILENT" (reduced light quantity appropriate for silent cooling).

-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
A "busy" response is given while the zoom or focus lens is being driven.
(Refer to the ZCONTDRV command and FCONTDRV command.)
-2 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Image adjustments] - [Lamp mode]
SX6	
SX60	[Image adjustments] - [Lamp mode]
X600	

-3 The current lamp output can be acquired using the applicable GET command.
For details, refer to the GET command.

Example Setting
> LAMP=NORMAL   The lamp output is set to "NORMAL".
< i:OK

Reference
> GET LAMP or ?LAMP   This retrieves the lamp output.
< g:LAMP=SILENT

Acquisition of parameters which can be set
> RANGE LAMP
< r:LAMP=I, NORMAL, SILENT   "NORMAL" or "SILENT" can be set for the lamp output.

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6	×	○	×	○	○	○	○	○	○	○	○	○	○	×	
SX60															
X600															

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RESET**			~~Mode~~	Control	~~Setting~~	Reference
Function	Reset						
Format	**RESET□<Reset parameters：ID>**						

Parameter	Reset parameters	ID

Parameter	Meaning
LAMPTIME	Lamp on time reset
IMAGE	Current image adjustment reset
SYSTEM	Initial system settings
ALL	Factory settings

Response	An 'i:OK' is returned when the reset process is successful. Furthermore, the internal status established when a response other than the normal response ("i:OK") has been returned is indeterminate. For all other responses, refer to "Error List."

Description This resets the projector settings.

-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
   A "busy" response is given while the zoom or focus lens is being driven.
   (Refer to the ZCONTDRV command and FCONTDRV command.)
-2 What can be specified by the reset parameters for each "reset type" is provided below.
   ■ Reset of lamp on time
      (a) The counter indicating the lamp replacement period is reset.
      (b) This command is identical to the Reset function under Lamp counter in the System settings menu.
      (c) Execute this command after replacing the lamp.

   ■ Current image adjustment reset
      (a) The adjustment settings of the currently-selected image mode are initialized.
      (b) This command is identical to the Reset function in the Image adj. menu.
      ※ If there is an input signal, the image adjustment items are initialized and then the adjustment values are optimized for the signal.

   ■ Reset of system settings
      (a) The following items are initialized.
         - Image adjustment items (all image modes)
         - Initial settings executed
         * For details, refer to 'RESET items' at the end of these specifications.
      (b) This command works in the same way as the menu [System settings] - [Initial settings] function.

   ■ Factory settings
      (a) The following items are initialized.
         - Image adjustment items (all image modes)
         - Initial settings executed
         - Input source <-A-RGB2
         - Language <- English
         * For details, refer to 'RESET items' at the end of these specifications.

-3 Notes
   (a) The power must never be turned off while this command is being executed!
   (b) After the 'Factory settings,' **be absolutely sure to turn the power off and then restart**.
   (c) 'NO_SIGNAL' may be returned as the response to the command after 'Current image adjustment reset' or 'System initial setting' has been executed.

Example Control
 > RESET LAMPTIME   This resets the lamp on time.
 < i:OK

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6	×	○	×	○	○	○	○	○	○	○	○	○	○	×	
SX60															
X600															

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**VKS/HKS**		Mode	Control	Setting	Reference

Function	Vertical/Horizontal keystone setting

Format	**VKS=<Vertical keystone distortion value: Number>** **HKS=<Horizontal keystone distortion value: Number>**

Parameter	Vertical/horizontal keystone distortion values The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.	Number

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description	This sets the vertical and horizontal keystones. -1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. 　A "busy" response is given while the zoom or focus lens is being driven. 　(Refer to the ZCONTDRV command and FCONTDRV command.) -2 This command is identical to pressing the "KEYSTONE" button on the remote control or front pa -3 The settable keystone range varies depending on the input signal, screen size, number of horizontal and vertical dots, and other factors. -4 Changing the vertical keystone value modifies the setting range of the horizontal keystone value, and changing the horizontal keystone value modifies the setting range of the vertical -5 Use the "RANGE" command to obtain the range of settable values immediately before setting the vertical value and horizontal value. -6 The GET command can be used to obtain the current vertical/horizontal keystone value. 　For details, refer to the GET command.

Example	Setting 　> VKS=-23　　　　　　　　This sets the vertical keystone to –23. 　< i:OK 　> HKS=10　　　　　　　　This sets the horizontal keystone to 10. 　< i:OK Reference 　> GET VKS or ?VKS　　　This retrieves the vertical keystone. 　< g:VKS=-23 　> GET HKS or ?HKS　　　This retrieves the horizontal keystone. 　< g:HKS=-23 Obtain settable parameter range (Min, Max) 　> RANGE HKS 　< r:HKS=N,-30,30　　　　Any value from -30 to 30 can be set for the horizontal keystone distortion. * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	×	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* If the necessary signals are not input, 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**AVOL**					~~Mode~~	~~Control~~	Setting	Reference
Function	Audio volume adjustment								
Format	**AVOL=<Audio volume level: Number>**								
Parameter	Audio volume level (0 to 20) The RANGE command can be used to obtain the parameter range that can be set at that time. For details, refer to the RANGE command.								Number
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."								
Description	This adjusts the volume. -1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. 　A "busy" response is given while the zoom or focus lens is being driven. 　(Refer to the ZCONTDRV command and FCONTDRV command.) -2 The final beep sound setting is retained even when the power is turned off. -3 This command has the same function as the buttons listed in the table below. 	Model	Button | 　　|---|---| 	SX50	'VOL+' and 'VOL-' on the remote control | 	SX6 / SX60 / X600	'VOL' on the remote control | -4 The volume level can be set even while the sound is muted, but the sound will remain muted. -5 The GET command can be used to retrieve the current volume. 　For details, refer to the GET command.								
Example	Setting 　> AVOL=18　　　　　　　　　This sets the volume to 18. 　< i:OK Reference 　> GET AVOL or ?AVOL　　　　This retrieves the volume. 　< g:AVOL=18 Obtain settable parameter range (Min, Max) 　> RANGE AVOL 　< r:AVOL=N,0,20　　　　　　Any value from 0 to 20 can be set for the volume level. * Commands are indicated by ">", and responses are indicated by "<".								
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**					
	○	○	○	○					

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**MUTE**					~~Mode~~	~~Control~~	Setting	~~Reference~~
Function	Mute control								
Format	**MUTE=<Mute control parameter: ID>**								

Parameter	Mute control parameter							ID

Parameter	Meaning
ON	This turns off the audio/beep sound.
OFF	This returns the audio/beep sound to its original setting.

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response
"i:OK" is returned if the parameter was set properly.
For all other responses, refer to "Error List."

Description
This command is used to set the sound output muting to ON or OFF.

-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
  A "busy" response is given while the zoom or focus lens is being driven.
  (Refer to the ZCONTDRV command and FCONTDRV command.)
-2 The mute setting is always "OFF" when the power has just been turned on.
-3 This command is identical to pressing the MUTE button on the remote control.
-4 Mute control enables simultaneous control of the audio and beep sound.
-5 The current muting status can be acquired using the applicable GET command.
  For details, refer to the GET command.

Example
Setting
> MUTE=ON   This mutes the volume.
< i:OK

Reference
> GET MUTE or ?MUTE   This retrieves the volume state.
< g:MUTE=ON

Acquisition of parameters which can be set
> RANGE MUTE
< r:MUTE=I, ON, OFF   "ON" or "OFF" can be set for muting control.

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**BVOL**				~~Mode~~	~~Control~~	Setting	~~Reference~~

Function	BEEP sound setting	
Format	**BVOL=\<Beep sound setting: Number\>**	
Parameter	Beep sound setting {table below} The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.	ID
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."	

Description	This sets the BEEP sound output.
	
	-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
	  A "busy" response is given while the zoom or focus lens is being driven.
	  (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 This command is identical to the Beep function in the System settings menu.
	-3 The beep sound can be set even while the sound is muted, but it will not sound even if (beep sound output) has been set.
	-4 The current beep sound output status can be acquired using the applicable GET command.
	  For details, refer to the GET command.	

Example	Setting
	  \> BVOL=0 This mutes the BEEP sound.
	  \< i:OK
	
	Reference
	  \> GET BVOL or ?BVOL This retrieves the BEEP sound output state.
	  \< g:BVOL=1
	
	Acquisition of parameters which can be set
	  \> RANGE BVOL
	  \< r:BVOL=I, 0, 1 "0" or "1" can be selected as the beep sound setting.
	
	* Commands are indicated by "\>", and responses are indicated by "\<".	

Parameter table:

Parameter	Meaning
0	BEEP sound mute
1	BEEP sound output

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	IMAGEFLIP			Mode	Control	Setting	Reference
Function	Flip display						
Format	**IMAGEFLIP=<Image flip setting parameters :ID>**						

Parameter	Image flip setting parameters	

Parameter	Meaning	Remarks
NONE	None	
CEILING	Ceiling	Flip horizontally
REAR	Rear	Flip vertically
REAR_CEILING	Rear ceiling	Flip horizontally and vertically

ID

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description	This command is used to flip the screen display in various ways (vertically or horizontally).
	
	-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
	   A "busy" response is given while the zoom or focus lens is being driven.
	   (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Display settings] - [Flip display]
SX6	
SX60	[Display settings] - [Flip display]
X600	

-3 When the display is flipped, the "keystone distortion" settings are initialized (set to HKS:0, VKS:0).
-4 The current flip display status can be acquired using the applicable GET command.
   For details, refer to the GET command.

Example	Setting	
	> IMAGEFLIP=REAR	This displays the image backwards (flip vertically) on the screen.
	< i:OK	
	Reference	
	> GET IMAGEFLIP or ?IMAGEFLIP	This retrieves the flip display state.
	< g:IMAGEFLIP=REAR_CEILING	
	Acquisition of parameters which can be set	
	> RANGE IMAGEFLIP	
	< r:IMAGEFLIP=I,NONE,CEILING,REAR,REAR_CEILING	"NONE," "CEILING," "REAR" or "REAR CEILING" can be selected as the flip display setting.
	* Commands are indicated by ">", and responses are indicated by "<".	

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6	×	O	×	O	O	O	O	O	O	O	O	O	O	×	
SX60															
X600															

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**PMM**			~~Mode~~	~~Control~~	Setting	Reference

Function	Power management

Format	**PMM=<Power management setting parameters：ID>**

Parameter Power management setting parameters

Parameter	Meaning
OFF	OFF
STANDBY	Standby mode
EXIT	Exit mode

ID

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response "i:OK" is returned if the parameter was set properly.
For all other responses, refer to "Error List."

Description This sets Power management mode.

-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
   A "busy" response is given while the zoom or focus lens is being driven.
   (Refer to the ZCONTDRV command and FCONTDRV command.)
-2 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[System settings] - [Power management modes]
SX6	
SX60	[System settings] - [Power management modes]
X600	

-2 With the SX6, SX60 or X600, power management cannot be set to OFF if ON has been selected as the direct power-on setting (DPON=ON). ("e:1005 DIRECT_POWER_ON" is
-3 The projector behaves as follows with the power management setting and in the remote mode.

Model	Projector behavior
SX50	In the remote mode, the power management setting is ignored. This setting takes effect only when the local mode is established.
SX6 SX60 X600	Even in the remote mode, the projector operates as per the power management setting. However, when it starts operating, it is automatically transferred to the "local mode."

-4 The current power management mode can be acquired using the applicable GET command.
   For details, refer to the GET command.

Example Setting
```
> PMM=STANDBY              This sets the power management to "standby."
< i:OK
```

Reference
```
> GET PMM or ?PMM          This retrieves the Power management mode.
< g:PMM=EXIT
```

Acquisition of parameters which can be set
```
> RANGE PMM
< r:PMM=I, OFF, STANDBY, EXIT    "OFF," "STANDBY" or "EXIT" can be set for the power
                                  management.
```

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**PJON**		Mode	Control	Setting	Reference

Function	Display screen at startup setting

Format	**PJON=<Parameters for setting display screen at startup;ID>**

Parameter	Parameters for setting display screen at startup	

Parameter	Meaning
CANON	Canon logo
SKIP	No display
LOGO	User screen

ID

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description	This sets the screen displayed at startup.
	
	-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
	   A "busy" response is given while the zoom or focus lens is being driven.
	   (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Display settings] - [User screen settings] - [Screen at startup]
SX6	
SX60	[Display settings] - [User screen settings] - [Screen at startup]
X600	

-3 To select the user screen (LOGO), the user image must be registered ahead of time. (If the user image is not registered, "e:1002 NO_LOGO_CAPTURED" is returned.)
-4 The GET command can be used to obtain the current screen displayed at startup.
   For details, refer to the GET command.

Example	Setting

  > PJON=CANON   This sets the startup screen to "Canon logo".
  < i:OK

Reference
  > GET PJON or ?PJON   This retrieves the startup screen.
  < g:PJON=SKIP

Acquisition of parameters which can be set
  > RANGE PJON   "CANON," "SKIP" or "LOGO" can be set for the display
                              screen at startup.
  < r:PJON=I, CANON, SKIP, LOGO

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.
* "i:BUSY" may be returned if the power status is being switched.

Commands	**NOSIG**			~~Mode~~	~~Control~~	Setting	~~Reference~~

Function	Display screen when no signal setting
Format	**NOSIG=<Parameters for setting display screen in no-signal mode:ID>**
Parameter	Parameters for setting display screen in no-signal mode

Parameter	Meaning
BLACK	Black screen
BLUE	Blue screen
LOGO	User screen

ID

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description	This sets the display screen when no image signals are input.
	
	-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
	   A "busy" response is given while the zoom or focus lens is being driven.
	   (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Display settings] - [User screen settings] - [Screen in no-signal mode]
SX6	
SX60	[Display settings] - [User screen settings] - [Screen in no-signal mode]
X600	

-3 To select the user screen (LOGO), the user image must be registered ahead of time. (If the user image is not registered, "e:1002 NO_LOGO_CAPTURED" is returned.)
-4 The GET command can be used to obtain the current display screen at no signal.
   For details, refer to the GET command.

Example	Setting > NOSIG=BLUE This sets the "Blue" screen when no signals are input. < i:Ok Reference > GET NOSIG or ?NOSIG This retrieves the screen when no signals are input. < g:NOSIG=LOGO Acquisition of parameters which can be set > RANGE NOSIG < r:NOSIG=I, BLACK, BLUE, LOGO "BLACK," "BLUE" or "LOGO" can be set for the display screen in the no-signal mode. * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6	×	○	×	○	○	○	○	○	○	○	○	○	○	×	
SX60															
X600															

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**NOSHOW**		Mode	Control	Setting	Reference

Function	Display screen setting when nothing shown
Format	**NOSHOW=<Parameters for setting display screen in no show status :ID>**

Parameter | Parameters for setting display screen in no show status

Parameter	Meaning
BLACK	Black screen
BLUE	Blue screen
LOGO	User screen

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

ID

Response | "i:OK" is returned if the parameter was set properly.
For all other responses, refer to "Error List."

Description | This command is used to set the screen which is to appear in the no show status.

-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
A "busy" response is given while the zoom or focus lens is being driven.
(Refer to the ZCONTDRV command and FCONTDRV command.)
-2 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Display settings] - [User screen settings] - [Screen in no show status]
SX6	
SX60	[Display settings] - [User screen settings] - [Screen in no show status]
X600	

-3 To select the user screen (LOGO), the user image must be registered ahead of time. (If the user image is not registered, "e:1002 NO_LOGO_CAPTURED" is returned.)
-4 The GET command can be used to obtain the current display screen when nothing is shown.
For details, refer to the GET command.

Example | Setting
> NOSHOW=LOGO   This sets the "User" screen when nothing is displayed.
< Ok

Reference
> GET NOSHOW or ?NOSHOW   This retrieves the screen shown when nothing is displayed.
< g:NOSHOW=LOGO

Acquisition of parameters which can be set
> RANGE NOSHOW
< r:NOSHOW=BLACK,BLUE,LOGO   "BLACK," "BLUE" or "LOGO" can be set for the display screen in the no show status.

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6	×	○	×	○	○	○	○	○	○	○	○	○	○	×	
SX60															
X600															

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.
* "i:BUSY" may be returned if the power status is being switched.

Commands	**LOGOPOS**			~~Mode~~	~~Control~~	Setting	~~Reference~~
Function	User image position setting						
Format	**LOGOPOS=<User image position setting parameters：ID>**						

Parameter	User image position setting parameters	
	Parameter	Meaning
	UPPER_L	Upper left
	UPPER_R	Upper right
	CENTER	Center
	LOWER_L	Lower left
	LOWER_R	Lower right

ID

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description This sets the logo display position.

-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
  A "busy" response is given while the zoom or focus lens is being driven.
  (Refer to the ZCONTDRV command and FCONTDRV command.)
-2 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[Display settings] - [User screen settings] - [User image position]
SX6	
SX60	[Display settings] - [User screen settings] - [User image position]
X600	

-3 This setting cannot be made unless the user screen is registered beforehand.
  (Error "e:1002 NO_LOGO_CAPTURED" is returned.)
-4 The current display position can be acquired using the applicable GET command.
  For details, refer to the GET command.

Example Setting
> LOGOPOS=UPPER_R   This sets the logo display position to the upper right.
< i:OK

Reference
> GET LOGOPOS or ?LOGOPOS   This retrieves the logo display position.
< g:LOGOPOS=LOWER_L

Acquisition of parameters which can be set
> RANGE LOGOPOS
< r:LOGOPOS=I,UPPER_L,UPPER_R,CENTER,LOWER_L,LOWER_R
                              "UPPER_L," "UPPER_R,"
                              "CENTER," "LOWER_L" or
                              "LOWER_R" can be set as the
                              user image position.
* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input								None	Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART		Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.
* "i:BUSY" may be returned if the power status is being switched.

Commands	**LANG**					Mode	Control	Setting	Reference
Function	Language select								
Format	**LANG=<Language selection parameters:ID>**								

Parameter | Language selection parameters

Parameter	Meaning	Errors supported by model			
		SX50	SX6	SX60	X600
ENG	English	O	O	O	O
FRA	French	O	O	O	O
GER	German	O	O	O	O
ITA	Italian	O	O	O	O
SPA	Spanish	O	O	O	O
POR	Portuguese	O	O	O	O
SWE	Swedish	O	O	O	O
DUT	Dutch	O	O	O	O
RUS	Russian	O	O	O	O
CHS	Chinese (simplified)	O	O	O	O
CHT	Chinese (traditional)	O	O	O	O
KOR	Korean	O	O	O	O
JPN	Japanese	O	O	O	O
FIN	Finnish	×	O	O	O
NOR	Norwegian	×	O	O	O
TUR	Turkish	×	O	O	O
POL	Polish	×	O	O	O
HUN	Hungarian	×	O	O	O
CZE	Czech	×	O	O	O
DAN	Danish	×	O	O	O

ID

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response | "i:OK" is returned if the parameter was set properly.
For all other responses, refer to "Error List."

Description | This switches the screen display language.

-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
A "busy" response is given while the zoom or focus lens is being driven.
(Refer to the ZCONTDRV command and FCONTDRV command.)
-2 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[System settings] - [Languages]
SX6	
SX60	[System settings] - [Languages]
X600	

-3 The currently set language can be acquired using the applicable GET command.
For details, refer to the GET command.

Example | Setting
> LANG=SWE   This sets the display language to "Swedish".
< i:OK

Reference
> GET LANG or ?LANG   This retrieves the language.
< g:LANG=SWE

Acquisition of parameters which can be set
> RANGE LANG
< r:LANG=I,ENG,FRA,GER,ITA,SPA,POR,SWE,DUT,RUS,CHS,CHT,KOR,JPN,FIN,NOR,TUR,
POL,HUN,CZE,DAN

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50	SX6	SX60	X600			
	01. 00**	01. 01**	01.01**	01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6	×	O	×	O	O	O	O	O	O	O	O	O	O	×	
SX60															
X600															

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.
* "i:BUSY" may be returned if the power status is being switched.

Commands	**TERMINAL**		~~Mode~~	~~Control~~	Setting	~~Reference~~
Function	Terminal setting					
Format	**TERMINAL=<Terminal setting parameters:ID>**					

Parameter	Terminal setting parameters	ID
	Parameter Meaning IN This sets to input OUT This sets to output The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.	

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description	This sets the input/output of the RGB-IN2/COMPONENT IN/RGB OUT terminals. -1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. -2 This command is identical to the Terminal command in the System settings menu. -3 The "OUT" (output) setting cannot be made when the "A-RGB2" or "COMP" input is selected! -4 The current terminal setting can be acquired using the applicable GET command. For details, refer to the GET command.

Example	Setting
	  > TERMINAL=IN This sets to input
	  < i:OK
	
	Reference
	  > GET TERMINAL or ?TERMINAL This retrieves the terminal setting state.
	  < g:TERMINAL=OUT
	
	Acquisition of parameters which can be set
	  > RANGE TERMINAL
	  < r:TERMINAL=I, IN, OUT "IN" or "OUT" can be selected as the terminal setting.
	
	* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	×	×	×			
	When a command is not supported, "e:0002 INVALID_COMMAND" is returned.						

Supported Command States

Model	Parameter	Power			Input									Mode	
		OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local
SX50	IN	×	O	×	O	O	O	O	O	O	–	–	O	O	×
	OUT	×	O	×	O	O	×	×	O	O	–	–	O	O	×
SX6 SX60 X600		–	–	–	–	–	–	–	–	–	–	–	–	–	–

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'TERMINAL_OUT' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**KEYLOCK**		~~Mode~~	~~Control~~	Setting	~~Reference~~
Function	Keylock setting					
Format	**KEYLOCK=\<Key lock setting parameters:ID>**					

Parameter	Key lock setting parameters	ID
	Parameter | Meaning OFF | No locking (OFF) MAIN | Main key lock RC | Remote control key lock The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.	

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description	This command is used to lock the keys so as to restrict the operations performed using the remote control or main unit. -1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 This command is the same as the menu functions in the table below.

Model	Menu
SX50	[System settings] - [Key lock]
SX6	
SX60	[System settings] - [Key lock]
X600	

-3 This command will not affect the emulation function (remote control or main unit commands)
even if the main unit or remote control keys are locked!
-4 The current key lock setting can be acquired using the applicable GET command.
For details, refer to the GET command.

Example	Setting

> KEYLOCK=RC   This locks the remote control keys.
< i:OK

Reference
> GET KEYLOCK or ?KEYLOCK   This retrieves the key lock state.
< g:KEYLOCK=OFF

Acquisition of parameters which can be set
> RANGE KEYLOCK
< r:KEYLOCK=I,OFF,MAIN,RC   "OFF," "MAIN" or "RC" can be selected as the key
                                lock setting.

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6	×	○	×	○	○	○	○	○	○	○	○	○	○	×	
SX60															
X600															

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RCCH**		Mode	~~Control~~	Setting	Reference

Function	Remote control setting
Format	**RCCH=<Remote control setting parameters:ID>**

Parameter	Remote control setting parameters	
	Parameter | Meaning 1 | Remote control channel 1 2 | Remote control channel 2 The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.	ID

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description	This command is used to set the channel of the remote control used at the projector end to 1 or 2.
	
	-1 It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
	    A "busy" response is given while the zoom or focus lens is being driven.
	    (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 This command is identical to the Remote control function in the System settings menu.

Model	Menu
SX50	[System settings] - [Remote control]
SX6	
SX60	[System settings] - [Other settings] - [Remote control]
X600	

-3 The current remote control setting can be acquired using the applicable GET command.
   For details, refer to the GET command.

Example	Setting > RCCH=1 This sets the remote control channel to ch1. < i:OK Reference > GET RCCH or ?RCCH This retrieves the remote control setting state. < g:RCCH=2 Acquisition of parameters which can be set > RANGE RCCH < r:RCCH=I, 1, 2 "1" or "2" can be set as the remote control channel. * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6	×	O	×	O	O	O	O	O	O	O	O	O	O	×	
SX60															
X600															

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	GUIDE				~~Mode~~	~~Control~~	Setting	~~Reference~~
Function	Guide setting							
Format	**GUIDE=\<Guide setting parameter：ID\>**							
Parameter	Guide setting parameters | Parameter	Meaning | |---|---| | ON | Guide display ON | | OFF | Guide display OFF | The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.						ID	
Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."							
Description	This command is used to set the guide function display to ON or OFF. (1) It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command.） (2) This command functions in the same way as when "System settings" – "Guide" are selected on the menu. However, the guide is cleared immediately when "GUIDE=OFF" is received while the guide is displayed. (3) The current guide setting can be obtained using the GET command. For details, refer to the GET command.							
Example	Setting 　＞ GUIDE=ON　　　　　　　The guide display is set to ON. 　＜ i:OK Reference 　＞ GET GUIDE or ?GUIDE　　　The guide display setting status is obtained. 　＜ g:GUIDE=ON Acquisition of parameters which can be set 　＞ RANGE GUIDE 　＜ r:GUIDE=I, OFF, ON *Commands are indicated by "＞", and responses are indicated by "＜".							
Commands supported	SX50 O1. OO**	SX6 O1. 01**	SX60 O1. 01**	X600 O1. 01**				
	×	○	○	○				
	When a command is not supported, "e:0002 INVALID_COMMAND" is returned.							

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	DPON				Mode	Control	Setting	Reference
Function	Direct power-on setting							

Format	DPON=<Direct power-on setting parameter：ID>

Parameter

Direct power-on setting parameters

Parameter	Meaning
ON	This sets direct power-on to ON.
OFF	This sets direct power-on to OFF.

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

ID

Response

"i:OK" is returned if the parameter was set properly.
For all other responses, refer to "Error List."

Description

This command is used to set direct power-on function to ON or OFF.

(1) It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
However, a "busy" response is given while the zoom or focus lens is being driven.
（ Refer to the ZCONTDRV command and FCONTDRV command. ）
(2) This command functions in the same way as when "System settings" – "Direct power-on" are selected on the menu.
(3) Direct power-on cannot be set to ON when "OFF" has been selected as the power management setting.
("e:1004 POWER_MANAGEMENT_OFF" is returned.)
(5) The current direct power-on setting can be obtained using the GET command.
For details, refer to the GET command.

Example

Setting
> DPON=ON   Direct power-on is set to ON.
< i:OK

Reference
> GET DPON or ?DPON   The current direct power-on setting is obtained.
< g:DPON=ON

Acquisition of parameters which can be set
> RANGE DPON
< r:DPON=I,ON,OFF   "ON" or "OFF" can be set for direct power-on.

＊Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**				
	×	〇	〇	〇				
When a command is not supported, "e:0002 INVALID_COMMAND" is returned.								

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX6 SX60 X600	×	〇	×	〇	〇	〇	〇	〇	〇	〇	〇	〇	〇	×	

＊If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.
＊When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	LEDILLUMINATE		~~Mode~~	~~Control~~	Setting	~~Reference~~

Function	Emotional LED and signal sensing LED lighting control

Format	**LEDILLUMINATE=<LED lighting control setting parameter：ID>**

Parameter	LED lighting control setting parameters <table><tr><td>Parameter</td><td>Meaning</td></tr><tr><td>ON</td><td>This sets the LED display to ON.</td></tr><tr><td>OFF</td><td>This sets the LED display to OFF.</td></tr></table> The parameters which can be set at any given point in time can be obtained using the RANGE command. For details, refer to the RANGE command.	ID

Response	"i:OK" is returned if the parameter was set properly. For all other responses, refer to "Error List."

Description	This command is used to control the lighting of the emotional LED and signal sensing LED. (1) It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command.　） (2) This command functions in the same way as when "System settings" – "LED illumination" are selected on the menu. (3) The current LED illumination setting can be obtained using the GET command. For details, refer to the GET command.

Example	Setting ＞ LEDILLUMINATE=ON　　　　　　　　　　The LED display is set to ON. ＜ i:OK Reference ＞ GET LEDILLUMINATE or ?LEDILLUMINATE　　　The ON or OFF setting for the LED display is ＜ g:LEDILLUMINATE=ON　　　　　　　　　　obtained. Acquisition of parameters which can be set ＞ RANGE LEDILLUMINATE ＜ r:LEDILLUMINATE=I, ON, OFF　　　　　　"ON" or "OFF" can be set for the LED display. *Commands are indicated by "＞", and responses are indicated by "＜".

Commands supported	SX50 O1. OO**	SX6 O1. O1**	SX60 O1. O1**	X600 O1. O1**						
		O		O		O				

When a command is not supported, "e:0002 INVALID_COMMAND" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	−	−	−	−	−	−	−	−	−	−	−	−	−	−	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	**ZSTEPDRV**		~~Mode~~	~~Control~~	Setting	~~Reference~~
Function	Zoom lens step drive control					
Format	**ZSTEPDRV=<Zoom lens step control parameter:ID>**					

Parameter	Zoom lens step control parameters	ID

Parameter	Meaning
WIDE	This zooms to the wide-angle end.
TELE	This zooms to the telephoto end.

The parameters which can be set at any given point in time can be obtained using the RANGE command.

For details, refer to the RANGE command.

Response	"i:OK" is returned when zooming was completed successfully after step drive. For all other responses, refer to "Error List."

Description	This command is used to initiate the step drive of the zoom lens.

(1) It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
However, a "busy" response is given while the zoom or focus lens is being driven.
(Refer to the ZCONTDRV command and FCONTDRV command.   )

(2) This command functions in the same way as when first the "ZOOM" button on the remote control or main unit panel is pressed and then the "←" or "→" button is pressed.

(3) The amount by which the lens is zoomed is constant, and it is fixed in the system.

(4) If a zooming error occurs, step drive cannot be controlled.

Example	Control

> ZSTEPDRV=TELE   1-step control is exercised over the zoom toward the TELE end.
< I:OK

Range acquisition
> RANGE ZSTEPDRV
< r:ZSTEPDRV=I, WIDE, TELE   "WIDE" or "TELE" can be set as the step control of the zoom.

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**			
	×	○	○	○			

When a command is not supported, "e:0002 INVALID_COMMAND" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	**ZCONTDRV**	~~Mode~~	~~Control~~	Setting	~~Reference~~

Function	Zoom lens continuous drive control

Format	**ZCONTDRV=<Zoom lens continuous control parameter:ID>**

Parameter	Zoom lens continuous control parameters	

Parameter	Meaning
STOP	This stops the zooming.
WIDE	This zooms to the wide-angle end.
TELE	This zooms to the telephoto end.

ID

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response	"i:OK" is returned when the drive was completed successfully. For all other responses, refer to "Error List."

Description	This command is used to drive the zoom lens continuously.

(1) It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
However, only the "STOP" parameter takes effect while the zoom lens is being driven, and a "busy" response is given while the focus lens is being driven.
（ Refer to the FCONTDRV command. ）

(2) This command functions in the same way as when first the "ZOOM" button on the remote control or main unit panel is pressed and then the "↑" or "↓" button is pressed.

(3) Zoom drive is started by specifying "TELE" or "WIDE." To stop the drive, add the "STOP" parameter and send this command.
If no instruction was given to stop the drive, the drive stops at the drive direction end.

(4) The following commands are acknowledged during zoom drive, but zoom drive will also stop at the same time.
In the case of any other commands, "i:BUSY (ZOOM)" is returned unconditionally, and zoom drive continues.

     a. REMOTE
     b. LOCAL
     c. POWER
     d. ZCONTDRV=STOP

(5) The following commands are acknowledged during zoom drive, and a response is returned while the drive continues.

     a. GET MODE   e. GET PRODCODE
     b. GET POWER   f. GET ROMVER
     c. GET ERR   g. GET COMVER
     d. GET LAMPCOUNTER

(6) Zoom drive stops when the "POWER" button on the remote control or main unit panel is pressed during zoom drive.

▼

Example	Control

  ＞ ZCONTDRV=TELE   Control over the zooming to the telephoto end is started.
  ＜ I:OK

Range acquisition
  ＞ RANGE ZCONTDRV
  ＜ r:ZCONTDRV = I, STOP, WIDE, TELE   "STOP," "WIDE" or "TELE" can be set for zoom lens continuous drive.

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**			
	×	○	○	○			

When a command is not supported, "e:0002 INVALID_COMMAND" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	**FSTEPDRV**			~~Mode~~	~~Control~~	Setting	~~Reference~~
Function	Focus lens step drive control						
Format	FSTEPDRV=<Focus lens step control parameter:ID>						

Parameter — Focus lens step control parameters

Parameter	Meaning
FAR	This initiates focusing toward the far end.
NEAR	This initiates focusing toward the near end.

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

ID

Response
"i:OK" is returned when zooming was completed successfully after step drive.
For all other responses, refer to "Error List."

Description
This command is used to drive the focus lens.

(1) It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
However, a "busy" response is given while the zoom or focus lens is being driven.
(Refer to the ZCONTDRV command and FCONTDRV command.)

(2) This command functions in the same way as when first the "FOCUS" button on the remote control or main unit panel is pressed and then the "←" or "→" button is pressed.

(3) The amount by which the lens is focused is constant, and it is fixed for the system.

(4) If a focusing error occurs, step drive cannot be controlled.

Example
Control
> FSTEPDRV=NEAR　　　　　　　1-step control is exercised over the zoom toward the
< I:OK　　　　　　　　　　　　　NEAR end.

Range acquisition
> RANGE FSTEPDRV
< r:FSTEPDRV=I, FAR, NEAR　　　　"FAR" or "NEAR" can be set for focus step control.

Commands supported

SX50	SX6	SX60	X600				
O1. OO**	O1. O1**	O1. O1**	O1. O1**				
×	○	○	○				

When a command is not supported, "e:0002 INVALID_COMMAND" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

＊If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

＊When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	**FCONTDRV**	~~Mode~~	~~Control~~	Setting	~~Reference~~

Function	Focus lens continuous drive control

Format	**FCONTDRV=<Focus lens continuous control parameter：ID>**

Parameter	Focus lens continuous control parameters	
	Parameter / Meaning table below	ID

Parameter	Meaning
STOP	This stops the focusing.
FAR	This initiates focusing toward the far end.
NEAR	This initiates focusing toward the near end.

The parameters which can be set at any given point in time can be obtained using the RANGE command.
For details, refer to the RANGE command.

Response	"i:OK" is returned when the drive was completed successfully. For all other responses, refer to "Error List."

Description	This command is used to drive the focus lens.

(1) It can be executed when the projector is in both the **remote mode** and **power-on** status at the same time.
However, only the "STOP" parameter takes effect while the focus lens is being driven, and a "busy" response is given while the zoom lens is being driven.
　(Refer to the ZCONTDRV command and FCONTDRV command.　)

(2) This command functions in the same way as when first the "FOCUS" button on the remote control or main unit panel is pressed and then the "↑" or "↓" button is pressed.

(3) Focus drive is started by specifying "NEAR" or "FAR." To stop the drive, add the "STOP" parameter and send this command.
If no instruction was given to stop the drive, the drive stops at the drive direction end.

(4) The following commands are acknowledged during focus drive, but focus drive will also stop at the same time.
In the case of any other commands, "i:BUSY (FOCUS)" is returned unconditionally, and focus drive continues.

    a. REMOTE
    b. LOCAL
    c. POWER
    d. FCONTDRV=STOP

(5) The following commands are acknowledged during focus drive, and a response is returned while the drive continues.

    a. GET MODE   e. GET PRODCODE
    b. GET POWER   f. GET ROMVER
    c. GET ERR   g. GET COMVER
    d. GET LAMPCOUNTER

(6) Focus drive stops when the "POWER" button on the remote control or main unit panel is pressed during focus drive.

Example	Control

  > FCONTDRV=NEAR   Control over the focusing to the near end is started.
  < I:OK

Range acquisition
  > RANGE FCONTDRV
  < r:FCONTDRV=I, STOP, FAR, NEAR   "STOP," "FAR" or "NEAR" can be set for focus lens continuous drive.

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	×	○	○	○			

When a command is not supported, "e:0002 INVALID_COMMAND" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	**RC**					Mode	Control	Setting	Reference
Function	Remote control operation emulate								
Format	**RC□<Remote control emulation button parameters：ID>**								

Parameter Remote control emulation button parameters

The key assignment for the remote control emulation buttons is as follows.

Remote control button	Parameter	Errors supported by model				Remarks
		SX50	SX6	SX60	X600	
POWER	POWER	O	O	O	O	
-	POWER_OFF	O	O	O	O	POWER button pressed twice
MENU	MENU	O	O	O	O	
AUTO SET	AUTOSET	×	O	O	O	
COMPUTER1	COMPUTER1	O	×	×	×	
COMPUTER2	COMPUTER2	O	×	×	×	
VIDEO	VIDEO	O	×	×	×	
INPUT	INPUT	×	O	O	O	
AUTOPC	AUTOPC	O	O	O	O	
KEYSTONE	KEYSTONE	O	O	O	O	
UP	UP	O	O	O	O	
	UP+REP	×	O	O	O	Button press start
DOWN	DOWN	O	O	O	O	
	DOWN+REP	×	O	O	O	Button press start
LEFT	LEFT	O	O	O	O	
	LEFT+REP	×	O	O	O	Button press start
RIGHT	RIGHT	O	O	O	O	
	RIGHT+REP	×	O	O	O	Button press start
OK	OK	O	O	O	O	
R_CLICK	R_CLICK	O	O	O	O	
PAGE ▲	P_UP	O	O	O	O	
	P_UP+REP	×	O	O	O	Button press start
PAGE ▼	P_DOWN	O	O	O	O	
	P_DOWN+REP	×	O	O	O	Button press start
IMAGE	IMAGE	O	O	O	O	
FREEZE	FREEZE	O	O	O	O	
VOL +	VOL_P	O	×	×	×	
VOL -	VOL_M	O	×	×	×	
VOL	VOL	×	O	O	O	
NOSHOW	NOSHOW	O	O	O	O	
MUTE	MUTE	O	O	O	O	
P-TIMER	P_TIMER	O	O	O	O	
DZOOM +	DZOOM_P	O	O	O	O	
	DZOOM_P+REP	×	O	O	O	Button press start
DZOOM_M	DZOOM_M	O	O	O	O	
	DZOOM_M+REP	×	O	O	O	Button press start
SPOT	SPOT	O	O	O	O	
FOCUS	FOCUS	×	O	O	O	
ZOOM	ZOOM	×	O	O	O	
-	*-REP	×	O	O	O	Button press end

ID

*Use the application to adjust the time between pressing of keys.

Response	"i:OK" is returned when the button press request has been acknowledged successfully. (It does not indicate if the operation for the pressed button was executed properly.)

Description	This emulates pressing of the remote control buttons for controlling the projector.
	
	-1 It can only be used during Local mode.
	
	■ Note 1
	    With the emulation of the remote control operations, the functions of the buttons corresponding to the parameters cannot necessarily be executed.
	    Emulation simply consists in emulating the pressing of the buttons.
	
	■ Note 2
	    The following functions are unavailable in remote control emulation.
	    - USB mouse function
	    - Function for transfer to special mode (service mode)
	
	■ Note 3
	    A parameter with '+REP' signifies "button press start." (This is the same as the status in which the remote control button is held down.)
	    Be absolutely sure to send the '*-REP' parameter, and end the button pressing last of all.
	    The button pressing is ended in the cases below as well.
	        <1> When a panel or remote control button has been operated
	        <2> When an 'RC' or 'MAIN' command has been received
	        <3> When operation has transferred to the remote mode

Example	Setting > RC POWER < i:Ok * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	○	○	○	○	○	○	○	○	○	–	–	○	×	○	
SX6 SX60 X600	○	○	○	○	○	○	○	○	○	○	○	○	×	○	

* If a command cannot be supported, 'INVALID_MODE' is returned as an error response.

Commands	MAIN						~~Mode~~	Control	~~Setting~~	~~Reference~~

Function	Front panel operation emulation

Format	**MAIN□<Main unit panel emulation button parameters：ID>**

Parameter Main unit panel emulation button parameters

The key assignments for the front panel buttons are shown below.

Remote control button	Parameter	Errors supported by model				Remarks
		SX50	SX6	SX60	X600	
POWER	POWER	O	O	O	O	
–	POWER_OFF	O	O	O	O	POWER button pressed twice
MENU	MENU	O	O	O	O	
AUTO SET	AUTOSET	×	O	O	O	
COMPUTER1	COMPUTER1	O	×	×	×	
COMPUTER2	COMPUTER2	O	×	×	×	
VIDEO	VIDEO	O	×	×	×	
INPUT	INPUT	×	O	O	O	
AUTOPC	AUTOPC	O	O	O	O	
KEYSTONE	KEYSTONE	O	O	O	O	
UP	UP	O	O	O	O	
	UP+REP	×	O	O	O	Button press start
DOWN	DOWN	O	O	O	O	
	DOWN+REP	×	O	O	O	Button press start
LEFT	LEFT	O	O	O	O	
	LEFT+REP	×	O	O	O	Button press start
RIGHT	RIGHT	O	O	O	O	
	RIGHT+REP	×	O	O	O	Button press start
OK	OK	O	O	O	O	
FOCUS	FOCUS	×	O	O	O	
ZOOM	ZOOM	×	O	O	O	
–	*-REP	×	O	O	O	Button press end

ID

*Use the application to adjust the time between pressing of keys.

Response	"i:OK" is returned when the button press request has been acknowledged successfully. (It does not indicate if the operation for the pressed button was executed properly.)

Description	This emulates the pressing of the front panel buttons for controlling the projector. -1 It can only be used during Local mode. ■ Note 1 With the emulation of the front panel operations, the functions of the buttons corresponding to the parameters cannot necessarily be executed. Emulation simply consists in emulating the pressing of the buttons. ■ Note 2 A parameter with '+REP' signifies "button press start." (This is the same as the status in which the front panel button is held down.) Be absolutely sure to send the '*-REP' parameter, and end the button pressing last of all. The button pressing is ended in the cases below as well. <1> When a panel or remote control button has been operated <2> When an 'RC' or 'MAIN' command has been received <3> When operation has transferred to the remote mode

Example	Setting > MAIN FOCUS < i:OK * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	O	O	O	O	O	O	O	O	O	–	–	O	×	O	
SX6	O	O	O	O	O	O	O	O	O	O	O	O	×	O	
SX60															
X600															

* If a command cannot be supported, 'INVALID_MODE' is returned as an error response.

Commands	GET		Mode	Control	Setting	Reference
Function	Retrieve each data					

Format	GET□ <Parameter> ?△<Parameter>

Parameter					

Parameter	Meaning		
MODE	Mode		
POWER	Power supply state		
BLANK	BLANK status		
INPUT	Input state		
DOTS	Input signal settings	Total dot number	
TRACK		Tracking	
HPOS		Horizontal position	
VPOS		Vertical position	
HPIX		Horizontal resolution	
VPIX		Vertical resolution	
SEL	Input signal		
ASPECT	Screen size		
IMAGE	Image settings		
BRI	Brightness setting		
CONT	Contrast setting		
SHARP	Sharpness setting		
GAMMA	Gamma correction		
DGAMMA	Dynamic gamma		
PROG	Progressive		
WB	Screen color correction methods		
WBRGB	Screen color correction (RGB)		
SAT	Color saturation setting		
HUE	Hue setting		
RGBGAIN	RGB gain adjustment		
RGBOFFSET	RGB offset adjustment		
ACADJUST	Advanced color adjustment methods		
MEMCADJ	Memory color correction		
6AXADJ	6-axis adjustment ON/OFF		
6AXR	6-axis color adjust	R Setting	ID
6AXG		G Setting	
6AXB		B Setting	
6AXC		C Setting	
6AXM		M Setting	
6AXY		Y Setting	
VKS	Vertical keystone distortion values		
HKS	Horizontal keystone distortion values		
AVOL	Volume adjustment		
MUTE	Mute status		
BVOL	Beep sound setting status		
IMAGEFLIP	Flip display status		
PMM	Power management		
PJON	Display screen at startup setting		
NOSIG	Display screen when there are no signals setting		
NOSHOW	Display screen when nothing shown		
LOGOPOS	User image position		
LANG	Language		
LAMP	Lamp output		
TERMINAL	Terminal setting		
KEYLOCK	Key lock		
RCCH	Remote control Ch		
GUIDE	Guide display setting		
DPON	Direct power-on setting		
LEDILLUMINATE	LED display setting		
NOSHOWSTATE	No show status		
FREEZE	Freeze status		
SIGNALSTATUS	Signal status detection		
LAMPCOUNTER	Lamp on time		
ERR	Error information		
PRODCODE	Production code		
ROMVER	ROM version		
COMVER	User command version		

Commands	**GET MODE**	~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Current control mode inquiry				

Format	**GET□MODE** **?△MODE**

Response	**g:MODE=<Mode:ID>**	
		ID

Mode	Meaning
LOCAL	The local mode is currently established.
REMOTE	The remote mode is currently established.

For all other responses, refer to "Error List."

Description	This inquires about the current control mode.

-1 For details on the control modes of the user commands, refer to the control mode.
-2 This inquiry can be executed in any status provided that AC power is supplied to the projector.
-3 The control mode is usually switched by REMOTE command-LOCAL command, but when the next
   event occurs in the remote status, the mode is switched to the **local** status.

      a. When the POWER button on the remote control or main unit panel has been pressed twice
        (power off operation)
      b. When the power management mode has been established (standby, power off)

Example	> GET MODE or ?MODE < g:MODE=REMOTE * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	○	○	○	○	○	○	○	○	○	–	–	○	○	○	
SX6 SX60 X600	○	○	○	○	○	○	○	○	○	○	○	○	○	○	

Commands	**GET POWER**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Power status inquiry						

| **Format** | **GET□POWER** |
| | **?△POWER** |

Response

g:POWER=<Power status: ID>

Power supply state	Status	
OFF	Power Off	
OFF2ON	Transitioning from power off→on	
ON	Power on	
ON2PMM	Transitioning from power on→standby mode	ID
PMM	Standby	
PMM2ON	Transitioning from standby→power on	
ON2OFF	Transitioning from power on→off	

For all other responses, refer to "Error List."

Description

This inquires about the current projector power status.

-1 This inquiry can be executed in any status provided that AC power is supplied to the projector.
   For the "SX50," the **remote mode** must be established.
-2 Use the following commands to control the power status with the user commands.

Mode	Commands
Local	RC POWER/POWER_OFF
	MAIN POWER/POWER_OFF
Remote	POWER ON/OFF

Example

> GET POWER or ?POWER
< g:POWER=ON

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50	SX6	SX60	X600			
	01.00**	01.01**	01.01**	01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	○	○	○	○	○	○	○	○	○	–	–	○	○	✕	
SX6	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
SX60															
X600															

* If a command cannot be supported, 'INVALID_MODE' is returned as an error response.

Commands	GET BLANK						~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	BLANK status inquiry									
Format	**GET□BLANK** **?△BLANK**									

Response	**g:BLANK=<BLANK status：ID>**	
		ID

BLANK status	Status
ON	BLANK underway
OFF	BLANK release underway

For all other responses, refer to "Error List."

Description	This command is used to inquire about the current BLANK status. (1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. （ Refer to the ZCONTDRV command and FCONTDRV command. ） (2) The BLANK setting can be controlled using the BLANK command.

Example	＞ GET BLANK or ? BLANK ＜ g:BLANK=ON *Commands are indicated by "＞", and responses are indicated by "＜".

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**			
	×	○	○	○			

When a command is not supported, "e:000A INVALID_PARAMETER" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	**GET INPUT**	~~Mode~~	~~Control~~	~~Setting~~	Reference

Function	Input selection inquiry

Format	**GET□INPUT** **?△INPUT**

Response

g:INPUT=<Input type: ID>

Input type	Meaning	Errors supported by model				ID
		SX50	SX6	SX60	X600	
D-RGB	D-RGB	O	O	O	O	
A-RGB1	A-RGB1	O	O	O	O	
A-RGB2	A-RGB2	O	O	O	O	
COMP	Component	O	O	O	O	ID
VIDEO	Video	O	O	O	O	
S-VIDEO	S-Video	O	O	O	O	
D-VIDEO	Digital Video	×	O	O	O	
SCARTRGB	SCART(RGB)	×	O	O	O	

For all other responses, refer to "Error List."

Description	This inquires about the current input selection. -1 This inquiry can be made in the **power-on** status. 　　A "busy" response is given while the zoom or focus lens is being driven. 　　（Refer to the ZCONTDRV command and FCONTDRV command.） 　　With the SX50, the inquiry can be made in the remote mode only. -2 The input selection can be controlled by the INPUT command.

Example	> GET INPUT or ? INPUT < g:INPUT=VIDEO * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	O	O	O	O				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	O	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	GET DOTS				~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Total number of dots inquiry							
Format	**GET☐DOTS** **?△DOTS**							
Response	**g:DOTS=<Total number of dots: Number>** For all other responses, refer to "Error List."							Number
Description	This inquires about the current total number of dots. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. 　A "busy" response is given while the zoom or focus lens is being driven. 　（Refer to the ZCONTDRV command and FCONTDRV command.） 　With some input signals, it may not be possible to make this inquiry. -2 The total number of dots can be set by the DOTS command.							
Example	> GET DOTS or ? DOTS < g:DOTS=1200 * Commands are indicated by ">", and responses are indicated by "<".							

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	○	○	×	×	×	–	–	×	○	×	
SX6 SX60 X600	×	○	×	×	○	○	×	×	×	×	×	×	○	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET TRACK**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Tracking adjustment value inquiry						
Format	**GET□TRACK** **?△TRACK**						
Response	**g:TRACK=<Tracking adjustment value: Number>** For all other responses, refer to "Error List."						Number

Description	This inquires about the current tracking adjustment value.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	   A "busy" response is given while the zoom or focus lens is being driven.
	   （Refer to the ZCONTDRV command and FCONTDRV command.)
	   With some input signals, it may not be possible to make this inquiry.
	-2 The tracking adjustment can be set by the TRACK command.						

Example	> GET TRACK or ? TRACK < g:TRACK=21 * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	○	○	×	×	×	–	–	×	○	×	
SX6 SX60 X600	×	○	×	×	○	○	×	×	×	×	×	×	○	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET HPOS/VPOS**	~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Horizontal and vertical position adjustment inquiries				

Format	Horizontal position adjustment inquiry **GET□HPOS** **?△HPOS**	Vertical position adjustment inquiry **GET□VPOS** **?△VPOS**		
Response	**g:HPOS=<Horizontal position adjustment value: Number>** **g:VPOS=<Vertical position adjustment value: Number>** For all other responses, refer to "Error List."		Number

Description	These inquire about the current horizontal and vertical position adjustment values. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command.） With some input signals, it may not be possible to make this inquiry. -2 The horizontal and vertical position adjustments can be set using the HPOS and VPOS commands, respectively.
Example	> GET VPOS or ? VPOS < g:VPOS=8 * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	○	○	×	×	×	–	–	×	○	×	
SX6 SX60 X600	×	○	×	×	○	○	×	×	×	×	×	×	○	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET HPIX/VPIX**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Horizontal and vertical resolution inquiries						
Format	Horizontal resolution inquiry **GET□HPIX** **?△HPIX**	Vertical resolution inquiry **GET□VPIX** **?△VPIX**					
Response	**g:HPIX=<Horizontal resolution: Number>** **g:VPIX=<Vertical resolution: Number>** For all other responses, refer to "Error List."					Number	
Description	These inquire about the current horizontal and vertical resolutions. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command.） With some input signals, it may not be possible to make this inquiry. -2 The horizontal and vertical resolutions can be set using the HPIX and VPIX commands, respectively.						
Example	> GET VPIX or ? VPIX < g:VPIX=684 * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	×	×	×	–	–	×	○	×	
SX6 SX60 X600	×	○	×	○	○	○	×	×	×	×	×	×	○	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET SEL**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Input signal inquiry						

Format	**GET□SEL**
	?△SEL

Response

g:SEL=<Input signal: ID>

Input signal	Remarks	
PAL	PAL-M,PAL-N included	
SECAM		
NTSC	NTSC4.43 included	
1080i	540p (1080i non-interlaced signals) included	
1035i		
720p		ID
575p		
480p		
575i	288p (PAL system non-interlaced signals) included	
480i	240p (NTSC system non-interlaced signals) included	
UNKNOWN	No-color, 1080p, and other signals	

For all other responses, refer to "Error List."

Description This inquires about the current input signals.

-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
A "busy" response is given while the zoom or focus lens is being driven.
（Refer to the ZCONTDRV command and FCONTDRV command.）
With some input signals, it may not be possible to make this inquiry.
-2 The input signals can be selected by the SEL command.

Example
\> GET SEL or ? SEL
< g:SEL=575p

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	×	×	○	○	○	–	–	×	○	×	
SX6 SX60 X600	×	○	×	×	×	×	○	○	○	×	×	×	○	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET ASPECT**				~~Mode~~	~~Control~~	~~Setting~~	Reference

Function	Screen setting inquiry

Format	**GET□ASPECT** **?△ASPECT**

Response	**g:ASPECT=<Screen setting:ID>**						ID

	Parameter	Meaning	Errors supported by model				
			SX50	SX6	SX60	X600	
	AUTO	Auto	O	O	O	O	
	NORMAL	Normal	O	–	–	–	
	WIDE	Wide	O	O	O	O	
	FULL	Full screen	O	O	O	O	
	TRUE	Real	O	O	O	O	

For all other responses, refer to "Error List."

Description	This inquires about the current screen setting. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command.） With some input signals, it may not be possible to make this inquiry. -2 The screen settings can be selected by the ASPECT command.

Example	> GET ASPECT or ? ASPECT < g:ASPECT=TRUE * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET IMAGE**					~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Image mode inquiry								

Format	**GET□IMAGE** **?△IMAGE**

Response **g:IMAGE=<Image mode：ID>**

Parameter	Meaning	Errors supported by model				ID
		SX50	SX6	SX60	X600	
STANDARD	Standard	〇	〇	〇	〇	
PRESENTATION	Presentation	〇	〇	〇	〇	
CINEMA	Cinema	〇	×	×	×	
SRGB	sRGB	〇	〇	〇	〇	
ADOBE	ADOBE RGB	×	〇	×	×	
MOVIE	Movie	×	×	〇	〇	
MOVIE_PHOTO	Movie & Photo	×	〇	×	×	
HOME_CINEMA	Home theater	×	×	〇	×	

For all other responses, refer to "Error List."

Description	This inquires about the current image mode. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command.） -2 The image mode settings can be selected by the IMAGE command.
Example	> GET IMAGE or ? IMAGE < g:IMAGE=CINEMA * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	〇	〇	〇	〇			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	〇	×	〇	〇	〇	〇	〇	〇	–	–	〇	〇	×	
SX6 SX60 X600	×	〇	×	〇	〇	〇	〇	〇	〇	〇	〇	〇	〇	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET BRI**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Brightness value setting inquiry						
Format	**GET□BRI** **?△BRI**						
Response	**g:BRI=<Brightness：Number>** For all other responses, refer to "Error List."						Number
Description	This inquires about the current brightness value setting. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. 　A "busy" response is given while the zoom or focus lens is being driven. 　（Refer to the ZCONTDRV command and FCONTDRV command.） -2 The brightness can be set by the BRI command.						
Example	> GET BRI or ? BRI < g:BRI=-10 * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	O	O	O	O				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET CONT**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Contrast value setting inquiry						
Format	**GET□CONT** **?△CONT**						
Response	**g:CONT=<Contrast value: Number>** For all other responses, refer to "Error List."						Number

Description	This inquires about the current contrast value setting.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	  A "busy" response is given while the zoom or focus lens is being driven.
	  （Refer to the ZCONTDRV command and FCONTDRV command.）
	-2 The contrast can be set by the CONT command.						

Example	> GET CONT or ? CONT < g:CONT=3 * Commands are indicated by ">", and responses are indicated by "<".						
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET SHARP**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Sharpness value setting inquiry						
Format	**GET□SHARP** **?△ SHARP**						
Response	**g;SHARP=<Sharpness setting: Number>** For all other responses, refer to "Error List."						Number
Description	This inquires about the current sharpness value setting. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command.） -2 The sharpness can be set by the SHARP command.						
Example	> GET SHARP or ? SHARP < g:SHARP=3 * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.01**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET GAMMA**			Mode	Control	Setting	Reference
Function	Gamma adjustment value inquiry						
Format	GET□GAMMA ?△GAMMA						
Response	**g:GAMMA=<Gamma adjustment value：Number>** For all other responses, refer to "Error List."						Number
Description	This inquires about the current gamma adjustment value. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command.） -2 The gamma adjustment value can be set by the GAMMA command.						
Example	> GET GAMMA or ? GAMMA < g:GAMMA=3 * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	O	O	O	O				

Supported Command States

Model	Power			Input								None	Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET DGAMMA**		~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Dynamic gamma value setting inquiry					
Format	**GET□DGAMMA** **?△DGAMMA**					
Response	**g:DGAMMA=<Setting: ID>** For all other responses, refer to "Error List."				ID	
Description	This inquires about the current dynamic gamma value setting. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command.） -2 The dynamic gamma setting value can be selected by the DGAMMA command.					
Example	> GET DGAMMA or ? DGAMMA < g:DGAMMA=1 * Commands are indicated by ">", and responses are indicated by "<".					

Response table:

Setting	Meaning
0	Off
1	On

Commands supported:

SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET PROG**					~~Mode~~	~~Control~~	~~Setting~~	Reference

Function	Progressive value setting inquiry

Format	**GET□PROG** **?△PROG**

Response	**g:PROG=<Set (status) value: ID>**

Response	Meaning	Errors supported by model				ID
		SX50	SX6	SX60	X600	
0	Off	○	○	○	○	
1	On	○	○	○	○	
2	AUTO	×	○	○	○	

For all other responses, refer to "Error List."

Description	This inquires about the current progressive (status) value set.

-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
A "busy" response is given while the zoom or focus lens is being driven.
（Refer to the ZCONTDRV command and FCONTDRV command.）
With some input signals, it may not be possible to make this inquiry.

-2 The significance of the response differs slightly depending on the model concerned.

Model	Significance of response
SX50	Regardless of the progressive setting, "ON" is indicated when the current progressive conversion processing function is working; "OFF" is indicated when the processing function is not working.
SX6 SX60 X600	This signifies the progressive value setting.

-3 The progressive setting can be selected by the PROG command.

Example	> GET PROG or ? PROG < g:PROG=1 * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input								None	Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART		Remote	Local	
SX50	×	○	×	×	×	×	○	○	○	–	–	×	○	×	
SX6 SX60 X600	×	○	×	×	×	×	○	○	○	×	×	×	○	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET WB**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Screen color correction inquiry						
Format	**GET□WB** **?△WB**						

Response	**g:WB=<Screen color correction value: ID>**			
	Response	Meaning		ID
	NORMAL	Normal		
	GREENBOARD	Blackboard		
	ADJUST	Adjust		
	For all other responses, refer to "Error List."			

Description	This inquires about the current screen color correction.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	  A "busy" response is given while the zoom or focus lens is being driven.
	  （Refer to the ZCONTDRV command and FCONTDRV command.）
	-2 The screen color correction can be set by the WB command.

Example	> GET WB or ? WB < g:WB=GREENBOARD * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	〇	〇	〇	〇			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	〇	×	〇	〇	〇	〇	〇	〇	–	–	〇	〇	×	
SX6 SX60 X600	×	〇	×	〇	〇	〇	〇	〇	〇	〇	〇	〇	〇	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET WBRGB**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Screen color correction (adjustment) inquiry						
Format	**GET□WBRGB** **?△WBRGB**						
Response	**g:WBRGB=\<R adjustment value: Number>▽\<G adjustment value: Number>▽\<B adjustment value: Number>** For all other responses, refer to "Error List."						Number
Description	This inquires about the current screen color correction (adjustment). -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command.） -2 The screen color correction (adjustment) can be set by the WBRGB command.						
Example	> GET WBRGB or ? WBRGB < g:WBRGB=10, 0, 19 * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET SAT**	~~Mode~~	~~Control~~	~~Setting~~	Reference

Function	Color saturation value setting inquiry

Format	**GET□SAT**
	?△SAT

Response	**g:SAT=<Color saturation value setting: Number>**	Number
	For all other responses, refer to "Error List."	

Description	This inquires about the current color saturation value setting.
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	A "busy" response is given while the zoom or focus lens is being driven.
	（Refer to the ZCONTDRV command and FCONTDRV command.）
	With some input signals, it may not be possible to make this inquiry.
	-2 The color saturation can be set by the SAT command.

Example	> GET SAT or ? SAT
	< g:SAT=1
	* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01*				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	×	×	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	×	×	×	○	○	○	×	×	○	○	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET HUE**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Hue value setting inquiry						
Format	**GET□HUE** **?△HUE**						
Response	**g:HUE=<Hue value setting:Number>** For all other responses, refer to "Error List."						Number
Description	This inquires about the current hue value set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. 　　A "busy" response is given while the zoom or focus lens is being driven. 　　（Refer to the ZCONTDRV command and FCONTDRV command.） 　　With some input signals, it may not be possible to make this inquiry. -2 The hue can be set by the HUE command.						
Example	＞ GET HUE or ? HUE ＜ g:HUE=1 * Commands are indicated by ">", and responses are indicated by "<".						
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input								Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	×	×	○	–	–	–	–	○	○	×	
							–	○	○			×			
SX6 SX60 X600	×	○	×	×	×	×	○	–	–	×	×	○	○	×	
							–	○	○			×			

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	GET RGBGAIN			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	RGB gain adjustment value inquiry						
Format	GET□RGBGAIN ?△RGBGAIN						
Response	g:RGBGAIN=<R adjustment value：Number>▽<G adjustment value：Number>▽<B adjustment value：Number> For all other responses, refer to "Error List."						Number

Description	This command is used to inquire about the current RGB gain adjustment values.
	
	(1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	  However, a "busy" response is given while the zoom or focus lens is being driven.
	   (Refer to the ZCONTDRV command and FCONTDRV command.)
	(2) The RGB gain can be set using the RGBGAIN command.						

Example	＞ GET RGBGAIN or ? RGBGAIN ＜ g:RGBGAIN=-10, 0, 19 *Commands are indicated by "＞", and responses are indicated by "＜".						

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**			
	×	○	○	○			
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.							

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	GET RGBOFFSET			~~Mode~~	~~Control~~	~~Setting~~	Reference

Function	RGB offset adjustment value inquiry

Format	GET□RGBOFFSET ?△RGBOFFSET	
Response	g:RGBOFFSET=<R adjustment value: Number>▽<G adjustment value: Number>▽<B adjustment value: Number> For all other responses, refer to "Error List."	Number

Description	This command is used to inquire about the current RGB offset adjustment values. (1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. 　However, a "busy" response is given while the zoom or focus lens is being driven. 　(Refer to the ZCONTDRV command and FCONTDRV command.) (2) The RGB offset can be set using the RGBOFFSET command.

Example	＞ GET RGBOFFSET or ? RGBOFFSET ＜ g:RGBOFFSET=-10, 0, 19 *Commands are indicated by "＞", and responses are indicated by "＜".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	×	○	○	○			
	When a command is not supported, "e:000A INVALID_PARAMETER" is returned.						

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

| Commands | **GET ACADJUST** | | | ~~Mode~~ | ~~Control~~ | ~~Setting~~ | Reference |

| Function | Advanced color adjustment inquiry |

| Format | **GET□ACADJUST**
 ?△ACADJUST |

Response

g:ACADJUST=<Details of adjustment:ID>

Details of adjustment	Meaning
NOCORRECT	No adjustment
MEM_L	Low memory color adjustment
MEM_M	Medium memory color adjustment
MEM_H	High memory color adjustment
6AX	6-axis adjustment

ID

For all other responses, refer to "Error List."

Description

This inquires about the details of the current advanced color adjustment.

-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
   A "busy" response is given while the zoom or focus lens is being driven.
   （Refer to the ZCONTDRV command and FCONTDRV command.）
-2 The advanced color adjustment can be set by the ACADJUST command.

Example

> GET ACADJUST or ? ACADJUST
< g:ACADJUST=6AX

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	×	×	×				

When a command is not supported, "e:000A INVALID_PARAMETER" is returned.

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	×	×	○	○	○	–	–	○	○	×	
SX6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX60															
X600															

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	GET MEMCADJ			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Memory color adjustment setting inquiry						
Format	GET□MEMCADJ ?△MEMCADJ						

Response

g:MEMCADJ=<Details of adjustment：ID>

Details of adjustment	Meaning
OFF	No adjustment
MEM_L	Low memory color adjustment
MEM_M	Medium memory color adjustment
MEM_H	High memory color adjustment

ID

For all other responses, refer to "Error List."

Description

This command is used to inquire about the current memory color adjustment setting.

(1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
   However, a "busy" response is given while the zoom or focus lens is being driven.
      (Refer to the ZCONTDRV command and FCONTDRV command.)
(2) The memory color adjustment can be set using the MEMCADJ command.

Example

> GET MEMCADJ or ? MEMCADJ
< g:MEMCADJ=MEM_M

*Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**			
	×	○	○	○			

When a command is not supported, "e:000A INVALID_PARAMETER" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	**GET 6AXADJ**	~~Mode~~	~~Control~~	~~Setting~~	Reference

Function	6-axis adjustment ON/OFF inquiry

Format	**GET□6AXADJ** **?△6AXADJ**

Response	**g:6AXADJ=<Setting:ID>**	

Setting	Meaning
ON	This sets the 6-axis adjustment to ON.
OFF	This sets the 6-axis adjustment to OFF.

For all other responses, refer to "Error List."

ID

Description	This command is used to inquire whether the 6-axis adjustment is ON or OFF. (1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. 　　However, a "busy" response is given while the zoom or focus lens is being driven. 　　（ Refer to the ZCONTDRV command and FCONTDRV command. ） (2) ON or OFF for the 6-axis adjustment can be set using the 6AXADJ command.

Example	＞ GET 6AXADJ or ? 6AXADJ ＜ g:6AXADJ=ON *Commands are indicated by "＞", and responses are indicated by "＜".

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**			
	×	○	○	○			

When a command is not supported, "e:000A INVALID_PARAMETER" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	−	−	−	−	−	−	−	−	−	−	−	−	−	−	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	**GET 6AXR-6AXY**			~~Mode~~	~~Control~~	~~Setting~~	Reference

Function	6-axis correction R to Y hue/color saturation setting inquiry

Format	R setting inquiry **GET□6AXR** **?△6AXR**	G setting inquiry **GET□6AXG** **?△6AXG**	B setting inquiry **GET□6AXB** **?△6AXB**	C setting inquiry **GET□6AXC** **?△6AXC**	M setting inquiry **GET□6AXM** **?△6AXM**	Y setting inquiry **GET□6AXY** **?△6AXY**

Response	**g:6AXR(G,B,C,M,Y)=<Hue value: Number>▽<Color saturation: Number>** For all other responses, refer to "Error List."	Number

Description	This inquires about the current 6-axis correction R to Y hue and color saturation settings. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command.） -2 The 6-axis correction R to Y can be set by the 6AXR to Y command.

Example	> GET 6AXR or ? 6AXR < g:6AXR=12, -8 * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input								None	Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART		Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET LAMP**			Mode	Control	Setting	Reference

Function	Lamp output setting inquiry

Format	**GET□LAMP** **?□LAMP**

Response

g:LAMP=<Setting:ID>

Setting	Meaning
NORMAL	Normal
SILENT	Silent cooling

For all other responses, refer to "Error List."

ID

Description

This inquires about the current lamp output setting.

-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
A "busy" response is given while the zoom or focus lens is being driven.
（Refer to the ZCONTDRV command and FCONTDRV command.）
-2 The lamp output can be set by the LAMP command.

Example

> GET LAMP or ? LAMP
< g:LAMP=NORMAL

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET VKS/HKS**				~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Vertical/horizontal keystone setting inquiry							

Format	Vertical keystone setting inquiry **GET□VKS** **?△VKS**	Horizontal keystone setting inquiry **GET□HKS** **?△HKS**

Response	**g:VKS=<Vertical keystone setting: Number>** **g:HKS=<Horizontal keystone setting: Number>** For all other responses, refer to "Error List."	Number

Description	These inquire about the current vertical and horizontal keystone settings. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command.） -2 The vertical and horizontal keystone settings can be selected by the VKS and HKS commands, respectively.

Example	> GET VKS or ? VKS < g:VKS=-23 * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	×	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* If the necessary signals are not input, 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET AVOL**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Audio volume setting inquiry						
Format	**GET□AVOL** **?△AVOL**						
Response	**g:AVOL=<Volume setting: Number>** For all other responses, refer to "Error List."						Number
Description	This inquires about the current audio volume setting. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. 　A "busy" response is given while the zoom or focus lens is being driven. 　（Refer to the ZCONTDRV command and FCONTDRV command.） -2 The audio volume can be set by the AVOL command.						
Example	> GET AVOL or ? AVOL < g:AVOL=18 * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET MUTE**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Mute control setting inquiry						
Format	**GET□MUTE** **?△MUTE**						

Response

g:MUTE=<Setting：ID>

Setting	Meaning
ON	This turns off the audio/beep sound.
OFF	This returns the audio/beep sound to its original setting.

ID

For all other responses, refer to "Error List."

Description

This inquires about the current mute control setting.

-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
A "busy" response is given while the zoom or focus lens is being driven.
（Refer to the ZCONTDRV command and FCONTDRV command.）
-2 Mute control can be set by the MUTE command.

Example

> GET MUTE or ? MUTE
< g:MUTE=ON

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported

SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	○	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET BVOL**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Beep sound value setting inquiry						
Format	**GET□BVOL** **?△BVOL**						
Response	**g:BVOL=\<Setting ID\>**						ID

Response table:

Setting	Meaning
0	BEEP sound mute
1	BEEP sound output

For all other responses, refer to "Error List."

Description	This inquires about the current beep sound value set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. （Refer to the <u>ZCONTDRV command</u> and FCONTDRV command.） -2 The beep sound can be set using the BVOL command.
Example	> GET BVOL or ? BVOL < g:BVOL=ON * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET IMAGEFLIP**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Flip display setting inquiry						
Format	**GET□IMAGEFLIP** **?△IMAGEFLIP**						

Response

g:IMAGEFLIP=<Setting：ID>

Setting	Meaning	Remarks
NONE	None	
CEILING	Ceiling	Flip horizontally
REAR	Rear	Flip vertically
REAR_CEILING	Rear ceiling	Flip horizontally and vertically

For all other responses, refer to "Error List."

ID

Description

This inquires about the current flip display setting.

-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
A "busy" response is given while the zoom or focus lens is being driven.
（Refer to the ZCONTDRV command and FCONTDRV command.）
-2 The flip display can be set using the IMAGEFLIP command.

Example

> GET IMAGEFLIP or ? IMAGEFLIP
< g:IMAGEFLIP=REAR_CEILING

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input								None	Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART		Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET PMM**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Power management setting inquiry						
Format	**GET□PMM** **?△PMM**						
Response	**g:PMM=<Setting :ID>**						ID

Setting	Meaning
OFF	Off
STANDBY	Standby mode
EXIT	Exit mode

For all other responses, refer to "Error List."

Description	This inquires about the current power management setting. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command） -2 Power management can be set by the PMM command.
Example	> GET PMM or ? PMM < g:PMM=EXIT * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET PJON**			~~Mode~~	~~Control~~	~~Setting~~	Reference

Function	Screen displayed at startup setting inquiry

Format	**GET□PJON** **?△PJON**

Response	**g:PJON=<Setting：ID>**	
	Setting / Meaning table below	ID

Setting	Meaning
CANON	Canon logo
SKIP	No display
LOGO	User screen

For all other responses, refer to "Error List."

Description	This inquires about the current setting for the screen to be displayed at startup. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command.） -2 The setting for the screen displayed at startup can be set by the PJON command.

Example	> GET PJON or ? PJON < g:PJON=SKIP * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET NOSIG**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Screen displayed at startup with no signals setting inquiry						
Format	GET☐NOSIG ?△NOSIG						

Response	**g:NOSIG=<Setting：ID>**		
	Setting	Meaning	
	BLACK	Black screen	
	BLUE	Blue screen	ID
	LOGO	User screen	
	For all other responses, refer to "Error List."		

Description	This inquires about the current setting for the screen to be displayed when there are no signals. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command.） -2 The display screen when there are no signals can be set by the NOSIG command.
Example	> GET NOSIG or ? NOSIG < g:NOSIG=LOGO * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	〇	〇	〇	〇			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	〇	×	〇	〇	〇	〇	〇	〇	–	–	〇	〇	×	
SX6	×	〇	×	〇	〇	〇	〇	〇	〇	〇	〇	〇	〇	×	
SX60															
X600															

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET NOSHOW**	~~Mode~~	~~Control~~	~~Setting~~	Reference

Function	Display screen when nothing is shown setting inquiry

Format	**GET□NOSHOW** **?△NOSHOW**

Response	**g:NOSHOW=<Setting：ID>** For all other responses, refer to "Error List."	ID

Setting	Meaning
BLACK	Black screen
BLUE	Blue screen
LOGO	User screen

Description	This inquires about the current setting for the screen to be displayed when nothing is shown. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command.） -2 The current display screen when nothing is shown can be set by the NOSHOW command.

Example	> GET NOSHOW or ? NOSHOW < g:NOSHOW=LOGO * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET LOGOPOS**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	User image position inquiry						

Format	**GET□LOGOPOS** **?△LOGOPOS**

Response

g:LOGOPOS=<Setting：ID>

Setting	Meaning
UPPER_L	Upper left
UPPER_R	Upper right
CENTER	Center
LOWER_L	Lower left
LOWER_R	Lower right

ID

For all other responses, refer to "Error List."

Description

This inquires about the current user screen (logo) display position.

-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
   A "busy" response is given while the zoom or focus lens is being driven.
   （Refer to the ZCONTDRV command and FCONTDRV command.）
-2 An inquiry cannot be made if the user image has not been registered.
   (The error "e:1002 NO_LOGO_CAPTURED" is returned.)
-3 The user image position can be set by the LOGOPOS command.

Example

> GET LOGOPOS or ? LOGOPOS
< g:LOGOPOS=LOWER_L

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET LANG**		Mode	Control	Setting	Reference
Function	Language inquiry					

Format	**GET□LANG** **?△LANG**

Response

g:LANG=<Language:ID>

Language	Meaning	Errors supported by model			
		SX50	SX6	SX60	X600
ENG	English	O	O	O	O
FRA	French	O	O	O	O
GER	German	O	O	O	O
ITA	Italian	O	O	O	O
SPA	Spanish	O	O	O	O
POR	Portuguese	O	O	O	O
SWE	Swedish	O	O	O	O
DUT	Dutch	O	O	O	O
RUS	Russian	O	O	O	O
CHS	Chinese (simplified)	O	O	O	O
CHT	Chinese (traditional)	O	O	O	O
KOR	Korean	O	O	O	O
JPN	Japanese	O	O	O	O
FIN	Finnish	×	O	O	O
NOR	Norwegian	×	O	O	O
TUR	Turkish	×	O	O	O
POL	Polish	×	O	O	O
HUN	Hungarian	×	O	O	O
CZE	Czech	×	O	O	O
DAN	Danish	×	O	O	O

ID

For all other responses, refer to "Error List."

Description This inquires about the current language selection.

-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
A "busy" response is given while the zoom or focus lens is being driven.
（Refer to the ZCONTDRV command and FCONTDRV command.）
-2 The language can be set by the LANG command.

Example
> GET LANG or ? LANG
< g:LANG=SWE

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input								None	Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART		Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET TERMINAL**				~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Terminal setting inquiry							
Format	**GET□TERMINAL** **?△TERMINAL**							
Response	**g:TERMINAL=<Setting:ID>**							ID
	Setting	Meaning						
	IN	This sets to input						
	OUT	This sets to output						
	For all other responses, refer to "Error List."							

Description	This inquires about the current terminal setting.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	  A "busy" response is given while the zoom or focus lens is being driven.
	  （Refer to the ZCONTDRV command and FCONTDRV command.）
	-2 The terminal can be set by the TERMINAL command.							

Example	> GET TERMINAL or ? TERMINAL < g:TERMINAL=OUT * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	O	×	×	×				
	When a command is not supported, "e:000A INVALID_PARAMETER" is returned.							

Supported Command States

Model	Parameter	Power			Input									Mode	
		OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local
SX50	IN	×	O	×	O	O	O	O	O	O	–	–	O	O	×
	OUT	×	O	×	O	O	×	×	O	O	–	–	O	O	×
SX6 SX60 X600	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'TERMINAL_OUT' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET KEYLOCK**					~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Key lock setting inquiry								
Format	**GET□KEYLOCK** **?△KEYLOCK**								

Response	**g:KEYLOCK=<Setting：ID>**	
		ID

Setting	Meaning
OFF	No locking (OFF)
MAIN	Main key lock
RC	Remote control key lock

For all other responses, refer to "Error List."

Description	This inquires about the current key lock setting. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. （Refer to the ZCONTDRV command and FCONTDRV command.） -2 Key lock can be set by the KEYLOCK command.
Example	> GET KEYLOCK or ? KEYLOCK < g:KEYLOCK=OFF * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	GET RCCH			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Remote control setting inquiry						
Format	**GET□RCCH** **?△RCCH**						
Response	**g:RCCH=<Setting：ID>**						ID

Response table:

Setting	Meaning
1	Remote control channel 1
2	Remote control channel 2

For all other responses, refer to "Error List."

Description	This inquires about the current remote control setting.

-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
A "busy" response is given while the zoom or focus lens is being driven.
（Refer to the ZCONTDRV command and FCONTDRV command.）
-2 Remote control can be set by the RCCH command.

Example	> GET RCCH or ? RCCH This inquires about the current remote control setting. < g:RCCH=1 * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	GET GUIDE			~~Mode~~	~~Control~~	~~Setting~~	Reference

Function	Guide setting inquiry

Format	**GET□GUIDE** **?△GUIDE**

Response	**g:GUIDE=<Setting:ID>**	

Setting	Meaning
ON	Guide display ON
OFF	Guide display OFF

ID

For all other responses, refer to "Error List."

Description	This command is used to inquire about the current guide setting.
	
	(1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	   However, a "busy" response is given while the zoom or focus lens is being driven.
	   (Refer to the ZCONTDRV command and FCONTDRV command.)
	(2) The guide can be set using the GUIDE command.

Example	> GET GUIDE or ? GUIDE An inquiry is made about the current guide setting. < g:GUIDE=OFF *Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	×	○	○	○			

When a command is not supported, "e:000A INVALID_PARAMETER" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	–	–	—	—	—	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	GET DPON			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Direct power-on setting inquiry						
Format	GET□DPON ?△DPON						
Response	g:DPON=<Setting：ID>						ID

Response table:

Setting	Meaning
ON	This sets direct power-on to ON.
OFF	This sets direct power-on to OFF.

For all other responses, refer to "Error List."

Description	This command is used to inquire about the current direct power-on setting.

(1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
However, a "busy" response is given while the zoom or focus lens is being driven.
(Refer to the ZCONTDRV command and FCONTDRV command.)
(2) Direct power-on can be set using the DPON command.

Example	＞ GET DPON or ? DPON ＜ g:DPON=OFF ＊Commands are indicated by "＞", and responses are indicated by "＜".

Commands supported

SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**			
×	〇	〇	〇			

When a command is not supported, "e:000A INVALID_PARAMETER" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	–	–	—	—	—	
SX6 SX60 X600	×	〇	×	〇	〇	〇	〇	〇	〇	〇	〇	〇	〇	×	

＊If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

＊When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	GET LEDILLUMINATE		~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Emotional LED and signal sensing LED lighting setting inquiry					

Format	GET□LEDILLUMINATE ?△LEDILLUMINATE

Response

g:LEDILLUMINATE=<Setting:ID>

Setting	Meaning
ON	This sets the LED display to ON.
OFF	This sets the LED display to OFF.

ID

For all other responses, refer to "Error List."

Description

This command is used to inquire about the current emotional LED and signal sensing LED lighting control settings.

(1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
　However, a "busy" response is given while the zoom or focus lens is being driven.
　　（ Refer to the ZCONTDRV command and FCONTDRV command. ）
(2) LED lighting control can be set using the LEDILLUMINATE command.

Example

> GET LEDILLUMINATE or ? LEDILLUMINATE
< g:LEDILLUMINATE=OFF

*Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	×	○	○	○				

When a command is not supported, "e:000A INVALID_PARAMETER" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D–RGB	A–RGB1	A–RGB2	Comp	Video	S–Video	D–Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	—	–	—	—	—	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	**GET NOSHOWSTATE**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	NoShow status inquiry						

Format	**GET□NOSHOWSTATE** **?△NOSHOWSTATE**

Response

g:NOSHOWSTATE=<Status：ID>

Status	Meaning
ON	Screen temporarily off
OFF	Screen not temporarily off

ID

For all other responses, refer to "Error List."

Description

This command is used to inquire about the current NoShow status.

(1) This inquiry can be made at any time provided that the **power-on** status is established.
　However, a "busy" response is given while the zoom or focus lens is being driven.
　　(Refer to the ZCONTDRV command and FCONTDRV command.)
(2) No show status ON/OFF is controlled using the "RC NOSHOW" command in the local mode. (Toggling)

Example

> GET NOSHOWSTATE or ? NOSHOWSTATE
< g:NOSHOWSTATE=ON

*Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**				
	×	○	○	○				

When a command is not supported, "e:000A INVALID_PARAMETER" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	○	

＊ If the command cannot be supported, "NOT_POWER_SUPPLIED" is returned as an error response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	GET FREEZE				~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Freeze status inquiry							
Format	**GET□FREEZE** **?△FREEZE**							
Response	**g:FREEZE=<Status：ID>**							

<table>
<tr><td rowspan="2"></td><td colspan="2">

Status	Meaning
ON	Image now frozen
OFF	Image now not frozen

For all other responses, refer to ˝Error List.˝
</td><td>ID</td></tr>
</table>

Description	This command is used to inquire about the current NoShow status. (1) This inquiry can be made at any time provided that the **power-on** status is established. 　　However, a ˝busy˝ response is given while the zoom or focus lens is being driven. 　　　(Refer to the ZCONTDRV command and FCONTDRV command.) (2) Freeze status ON/OFF is controlled using the ˝RC FREEZE˝ command in the local mode. (Toggling)
Example	＞ GET FREEZE or ? FREEZE ＜ g:FREEZE=ON *Commands are indicated by ˝＞˝, and responses are indicated by ˝＜˝.

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**				
	×	〇	〇	〇				

When a command is not supported, ˝e:000A INVALID_PARAMETER˝ is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	－	－	－	－	－	－	－	－	－	－	－	－	－	－	
SX6 SX60 X600	×	〇	×	〇	〇	〇	〇	〇	〇	〇	〇	〇	〇	〇	

＊ If the command cannot be supported, ˝NOT_POWER_SUPPLIED˝ is returned as an error response.

＊When the power supply state is in the process of switching, an ˝i:BUSY˝ reply may be sent.

Commands	**GET SIGNALSTATUS**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Signal status inquiry						

Format	**GET□SIGNALSTATUS** **?△SIGNALSTATUS**

Response

g:SIGNALSTATUS=<Signal status:ID>

Signal status	Meaning
NO_SIGNAL	Signal not detected
DISPLAYING	Image now displayed or display enable status
SETTING	Signal detection and display preparation in progress

ID

For all other responses, refer to "Error List."

Description

This inquires about the current image signal input status.

-1 This inquiry can be made at any time provided that the **power-on** status is established.
 A "busy" response is given while the zoom or focus lens is being driven.
 （Refer to the ZCONTDRV command and FCONTDRV command.）
 For the "SX50," the **remote mode** must be established.
-2 This returns the signal status of the selected input. Use INPUT command for the input selection.
-3 Even if the status is "DISPLAYING" (image now shown), the image is not displayed during blanking
 Check the status using GET BLANK. To clear the blank status, use BLANK=OFF.
-4 Similarly, the image is not displayed during "no show".
 Check the status using GET NOSHOWSTATUS.
 To clear no show, execute RC NOSHOW.

Example

\> GET SIGNALSTATUS or ? SIGNALSTATUS
< g:SIGNALSTATUS=NO_SIGNAL

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input								None	Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART		Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	○	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET LAMPCOUNTER**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Lamp ON time inquiry						

Format	**GET□LAMPCOUNTER** **?△LAMPCOUNTER**

Response

g:LAMPCOUNTER="<Lamp ON time: Character string>"

Lamp ON time	Meaning (ON time: H)				
	SX50	SX50	SX50	SX50	Character string
"[G_____]"	0 ~ 199	0 ~ 279	0 ~ 459	0 ~ 279	
"[GG_____]"	200 ~ 399	280 ~ 559	460 ~ 919	280 ~ 559	
"[GGG_____]"	400 ~ 599	560 ~ 839	920 ~ 1379	560 ~ 839	
"[GGGG____]"	600 ~ 799	840 ~ 1119	1380 ~ 1839	840 ~ 1119	
"[GGGGG___]"	800 ~ 999	1120 ~ 1399	1840 ~ 2299	1120 ~ 1399	
"[GGGGGGY__]"	1000 ~ 1199	1400 ~ 1449	2300 ~ 2399	1400 ~ 1449	
"[GGGGGGYY_]"	1200 ~ 1399	1450 ~ 1499	2400 ~ 2499	1450 ~ 1499	
"[GGGGGGYYR]"	1400 ~	1500 ~	2500 ~	1500 ~	

For all other responses, refer to "Error List."

Description	This inquires about the current lamp ON time. -1 This inquiry can be executed in any status provided that AC power is supplied to the projector. For the "SX50," the projector must be in the **remote mode** and **power-on** status.

Example	> GET LAMPCOUNTER or ? LAMPCOUNTER < g:LAMPCOUNTER="[GG_____]" * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	○	○	○	○	○	○	○	○	○	○	○	○	○	○	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	GET ERR						~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Error information inquiry									

Format	GET□ERR ?△ERR

Response

g:ERR=<ErrorID:ID>

Error ID	Meaning	Errors supported by model				ID
		SX50	SX6	SX60	X600	
NO_ERROR	No error	O	O	O	O	
ABNORMAL_TEMPERATUR	Temperature error	O	O	O	O	
FAULTY_LAMP	Lamp error	O	O	O	O	
FAULTY_LAMP_COVER	Lamp cover error	O	O	O	O	
FAULTY_COOLING_FAN	Cooling fan error	O	O	O	O	
FAULTY_POWER_SUPPLY	Power supply error	O	O	O	O	ID
FAULTY_AK	AK error	–	O	O	O	
FAULTY_ASC	ASC error	–	O	O	O	
FAULTY_AF	AF error	–	O	O	O	
FAULTY_POWER_ZOOM	Zoom error	–	O	O	O	
FAULTY_POWER_FOCUS	Focus error	–	O	O	O	

For all other responses, refer to "Error List."

Description

This inquires about the current error information.

-1 This inquiry can be executed in any status provided that AC power is supplied to the projector.
   For the "SX50," the **remote mode** must be established.
-2 Information when the warning LED of the projector is flashing can be obtained.
   "NO_ERROR" is returned when the warning LED is not lighted.

Example

> GET ERR or ? ERR
< g:ERR=FAULTY_LAMP

* Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	O	O	O	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	O	O	O	O	O	O	O	O	O	O	O	O	O	O	

* If a command cannot be supported, 'INVALID_MODE' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET PRODCODE**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Product information inquiry						
Format	**GET□PRODCODE** **?△PRODCODE**						
Response	**g:PRODCODE="\<Product name: Character string>"**					Character string	

Response table:

Product name
SX50
SX6
SX60
X600

For all other responses, refer to "Error List."

Description	This inquires about the product name of the projector.
	-1 This inquiry can be executed in any status provided that AC power is supplied to the projector. For the "SX50," the projector must be in the **remote mode** and **power-on** status.

Example	> GET PRODCODE or ? PRODCODE < g:PRODCODE="SX50" * Commands are indicated by ">", and responses are indicated by "<".

Commands supported

SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
O	O	O	O				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	O	O	O	O	O	O	O	O	O	O	O	O	O	O	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET ROMVER**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	ROM version inquiry						
Format	**GET□ROMVER** **?△ROMVER**						
Response	**g:ROMVER="<ROM VERSION：Character string>"** <ROM VERSION> := 99.9999 For all other responses, refer to "Error List."						Character string
Description	This inquires about the product name of the projector. -1 This inquiry can be executed in any status provided that AC power is supplied to the projector. For the "SX50," the projector must be in the **remote mode** and **power-on** status.						
Example	> GET ROMVER or ? ROMVER < g:ROMVER="01.0306" * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	○	○	○	○	○	○	○	○	○	○	○	○	○	○	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**GET COMVER**		~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	User command version inquiry					
Format	**GET□COMVER** **?△COMVER**					
Response	**g:COMVER="\<User command version：Character string\>"** \<User command version\> := 99.9999 For all other responses, refer to "Error List."				Character string	
Description	This inquires about the user command version of the projector. -1　This inquiry can be executed in any status provided that AC power is supplied to the projector. 　　For the "SX50," the **remote mode** must be established. -2　The user command version consists of a 2-digit number followed by a 4-digit number. Question 　　marks may appear in place of the numerals if the firmware has not been upgraded correctly. 　　(Example "??:????")					
Example	> GET COMVER or ? COMVER < g:COMVER="01.0000" * Commands are indicated by ">", and responses are indicated by "<".					

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	○	○	○	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	○	○	○	○	○	○	○	○	○	○	○	○	○	○	

* If a command cannot be supported, 'INVALID_MODE' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE**			Mode	Control	Setting	Reference
Function	Setting range request						
Format	**RANGE□ <Parameter>**						

Parameter			

Parameter	Meaning		
POWER	Power supply state		
BLANK	Blank setting		
AUTOSETEXE	Auto setup		
INPUT	Input state		
DOTS		Total number of dot	
TRACK	Input signal settings	Tracking	
HPOS		Horizontal position	
VPOS		Vertical position	
HPIX		Horizontal resolution	
VPIX		Vertical resolution	
SEL	Input signal		
ASPECT	Screem size		
IMAGE	Image settings		
BRI	Brightness setting value		
CONT	Contrast setting value		
SHARP	Sharpness setting value		
GAMMA	Gamma correction		
DGAMMA	Dynamic gamma		
PROG	Progressive		
WB	Screen color correction		
WBRGB	Screen color correction value (RGB)		
SAT	Color saturation setting value		
HUE	Hue setting value		
RGBGAIN	RGB gain adjustment		
RGBOFFSET	RGB offset adjustment		
ACADJUST	Advanced color correction method		
MEMCADJ	Memory color correction		
6AXADJ	6-axis adjustment ON/OFF		
6AXR		R setting value	
6AXG	6-axis color adjust	G setting value	
6AXB		B setting value	
6AXC		C setting value	
6AXM		M setting value	
6AXY		Y setting value	
VKS	Vertical keystone distortion values		
HKS	Horizontal keystone distortion values		
AVOL	Volume adjustment		
MUTE	Mute state		
BVOL	Beep sound setting status		
IMAGEFLIP	Flip display status		
PMM	Power management		
PJON	Display screen at startup setting		
NOSIG	Display screen when there are no signals setting		
NOSHOW	Display screen when nothing shown		
LOGOPOS	User image position		
LANG	Language		
LAMP	Lamp output		
TERMINAL	Terminal setting		
KEYLOCK	Key lock		
RCCH	Remote control Ch		
GUIDE	Guide display setting		
DPON	Direct power-on setting		
LEDILLUMINATE	LED display setting		
ZSTEPDRV	Zoom step control		
ZCONTDRV	Zoom continuous control		
FSTEPDRV	Focus step control		
FCONTDRV	Focus continuous control		

ID

Response	Responses are made in the formats below for each parameter.
	\<Parameter name\>=\<Type\>, \<Setting range\>

Type	Meaning
I	ID
N	Number

The definition of \<Setting range\> varies depending on the type.

1. When the type is I (ID)
\<Setting range\>: = \<Setting option 1\>, \<Setting option 2\>, \<Setting option 3\>,
\<Setting option 4\>, …, \<Setting option N\>

2. When the type is N (Number)
\<Setting range\>: = \<Setting option 1 minimum value\>, \<Setting option 1 maximum
value\>, \<Setting option 2 minimum value\>, \<Setting option 2 maximum value\>, …,
\<Setting option N minimum value\>, \<Setting option N maximum value\>

Description	This retrieves the setting range of each parameter.
-1	The setting ranges of the setting or control command parameters may differ depending on the projector status (input, display mode, etc.).
-2	To ensure reliability, request the setting ranges before sending the setting or control commands. (Once the setting ranges have been obtained, the setting or control commands can be
-3	For further details, refer to the descriptions of the commands.

Commands	**RANGE POWER**				~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Power control setting option request							
Format	**RANGE□POWER**							
Response	**r:POWER=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>** For all other responses, refer to "Error List."							ID

Description	This inquires about the power control setting options.
	
	-1 This inquiry can be executed in any status provided that AC power is supplied to the projector.
	   A "busy" response is given while the zoom or focus lens is being driven.
	   (Refer to the ZCONTDRV command and FCONTDRV command.)
	   With the SX50, the inquiry can be made in the remote mode only.
	-2 The power can be controlled by the POWER command.							

Example	> RANGE POWER < r:POWER=I, ON, OFF * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	O	O	O	O				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	O	O	O	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	O	O	O	O	O	O	O	O	O	O	O	O	O	×	

* If a command cannot be supported, 'INVALID_MODE' is returned as an error response.

Commands	RANGE BLANK				~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	BLANK setting option request							
Format	RANGE□BLANK							
Response	r:BLANK=I, <Setting option 1>, <Setting option 2>, ···, <Setting option n> For all other responses, refer to "Error List."						ID	
Description	This command is used to inquire about the parameter options which enable BLANK to be set. (1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) (2) The BLANK can be controlled using the BLANK command.							
Example	> RANGE BLANK < r:BLANK=I, ON, OFF ＊Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**				
	×	○	○	○				
	When a command is not supported, "e:000A INVALID_PARAMETER" is returned.							

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	–	–	—	—	—	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

＊If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

＊When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE AUTOSETEXE			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Auto setup setting option request						
Format	RANGE□AUTOSETEXE						
Response	r:AUTOSETEXE=I, <Setting option 1>, <Setting option 2>, ···, <Setting option n> For all other responses, refer to "Error List."					ID	

Description	This command is used to inquire about the parameter options which enable auto setup to be set.
	
	(1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	  However, a "busy" response is given while the zoom or focus lens is being driven.
	    (Refer to the ZCONTDRV command and FCONTDRV command.)
	(2) Auto setup can be controlled using the AUTOSETEXE command.						

Example	> RANGE AUTOSETEXE < r:AUTOSETEXE=I, FOCUS, VKS, SCRN, INPUT *Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**			
	×	○	○	○			
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.							

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	–	–	—	—	—	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	**RANGE INPUT**					~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Input selection setting option request								
Format	**RANGE□INPUT**								
Response	**r:INPUT=I, \<Setting option 1>, \<Setting option 2>, …, \<Setting option n>** For all other responses, refer to "Error List."								ID
Description	This inquires about the parameter options which enable input selection to be set. -1 This inquiry can be made in the **power-on** status. 　A "busy" response is given while the zoom or focus lens is being driven. 　(Refer to the ZCONTDRV command and FCONTDRV command.) 　With the SX50, the inquiry can be made in the remote mode only. -2 The input selection can be controlled by the INPUT command.								
Example	> RANGE INPUT < r:INPUT=I, D-RGB, A-RGB1, A-RGB2, COMP, VIDEO, S-VIDEO * Commands are indicated by ">", and responses are indicated by "<".								
Commands supported	SX50 01.00** ○	SX6 01.01** ○	SX60 01.01** ○	X600 01.01** ○					

Supported Command States

Model	Power			Input								None	Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART		Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE DOTS				~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Total dot number setting range inquiry							
Format	**RANGE☐DOTS**							
Response	**r:DOTS=N, <Minimum setting value>, <Maximum setting value>** For all other responses, refer to "Error List."						Number	
Description	This inquires about the range within which the total number of dots can be set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. 　A "busy" response is given while the zoom or focus lens is being driven. 　(Refer to the ZCONTDRV command and FCONTDRV command.) 　With some input signals, it may not be possible to make this inquiry. -2 The total number of dots can be set by the DOTS command.							
Example	> RANGE DOTS < r:DOTS=N, 0, 4096 * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	○	○	×	×	×	–	–	×	○	×	
SX6 SX60 X600	×	○	×	×	○	○	×	×	×	×	×	×	○	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE TRACK**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Tracking adjustment range request						
Format	**RANGE□TRACK**						
Response	**r:TRACK=N, <Minimum setting value>, <Maximum setting value>** For all other responses, refer to "Error List."						Number
Description	This inquires about the values to which the tracking can be adjusted. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) With some input signals, it may not be possible to make this inquiry. -2 The tracking adjustment can be set by the TRACK command.						
Example	> RANGE TRACK < r:TRACK=N, 0, 31 * Commands are indicated by ">", and responses are indicated by "<".						
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	○	○	×	×	×	–	–	×	○	×	
SX6 SX60 X600	×	○	×	×	○	○	×	×	×	×	×	×	○	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE HPOS/VPOS**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Horizontal/vertical position adjustment range request						
Format	Horizontal position adjustment range inquiry **RANGE□HPOS**	Vertical position adjustment range inquiry **RANGE□VPOS**					
Response	**r:HPOS=N, \<Minimum setting value\>, \<Maximum setting value\>** **r:VPOS=N, \<Minimum setting value\>, \<Maximum setting value\>** For all other responses, refer to "Error List."						Number

Description	These inquire about the ranges within which the horizontal and vertical positions can be adjusted.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	  A "busy" response is given while the zoom or focus lens is being driven.
	  (Refer to the ZCONTDRV command and FCONTDRV command.)
	  With some input signals, it may not be possible to make this inquiry.
	-2 The horizontal and vertical position adjustments can be set using the HPOS and VPOS commands, respectively.						

Example	\> RANGE VPOS \< r:VPOS=N, 0, 820 * Commands are indicated by "\>", and responses are indicated by "\<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	○	○	×	×	×	−	−	×	○	×	
SX6 SX60 X600	×	○	×	×	○	○	×	×	×	×	×	×	○	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE HPIX/VPIX**		~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Horizontal/vertical resolution setting range request					
Format	Horizontal resolution setting range inquiry **RANGE□HPIX**	Vertical resolution setting range inquiry **RANGE□VPIX**				
Response	**r:HPIX=N, \<Minimum setting value\>, \<Maximum setting value\>** **r:VPIX=N, \<Minimum setting value\>, \<Maximum setting value\>** For all other responses, refer to "Error List."					Number

	Description
	These inquire about the ranges within which the horizontal and vertical resolutions can be set.
-1	This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) With some input signals, it may not be possible to make this inquiry.
-2	The horizontal and vertical resolutions can be set using the HPIX and VPIX commands, respectively.

Example
> RANGE VPIX < r:VPIX=N, 0, 1000 * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	×	×	×	–	–	×	○	×	
SX6 SX60 X600	×	○	×	○	○	○	×	×	×	×	×	×	○	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE SEL**				~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Input signal setting option request							
Format	**RANGE☐SEL**							
Response	**r:SEL=I, <Setting option 1>, <Setting option 2>, …, <Setting option n>** For all other responses, refer to "Error List."							ID

Description	This inquires about the parameter options which enable the input signals to be set.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	   A "busy" response is given while the zoom or focus lens is being driven.
	   (Refer to the ZCONTDRV command and FCONTDRV command.)
	   With some input signals, it may not be possible to make this inquiry.
	-2 The input signals can be selected by the SEL command.							

Example	> RANGE SEL < r:SEL=I, AUTO * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input								Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	×	×	○	○	○	–	–	×	○	×	
SX6 SX60 X600	×	○	×	×	×	×	○	○	○	×	×	×	○	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE ASPECT**		~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Screen setting option request					
Format	**RANGE□ASPECT**					
Response	**r:ASPECT=I, <Setting option 1>, <Setting option 2>, …, <Setting option n>** For all other responses, refer to "Error List."				ID	
Description	This inquires about the parameter options which enable the screen to be set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) With some input signals, it may not be possible to make this inquiry. -2 The screen settings can be selected by the ASPECT command.					
Example	> RANGE ASPECT < r:ASPECT=I, AUTO, NORMAL, WIDE * Commands are indicated by ">", and responses are indicated by "<".					

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE IMAGE**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Image mode setting option request						
Format	**RANGE□IMAGE**						
Response	**r:IMAGE=I, <Setting option 1>, <Setting option 2>, …, <Setting option n>** For all other responses, refer to "Error List."						ID

Description	This inquires about the parameter options which enable the image mode to be set.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	  A "busy" response is given while the zoom or focus lens is being driven.
	  (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 The image mode settings can be selected by the IMAGE command.						

Example	> RANGE IMAGE < r:IMAGE=I, STANDARD, PRESENTATION, CINEMA, SRGB * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE BRI**				~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Brightness setting range request							
Format	**RANGE□BRI**							
Response	**r:BRI=N, <Minimum setting value>, <Maximum setting value>** For all other responses, refer to "Error List."							Number
Description	This inquires about the range of values at which the brightness can be set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The brightness can be set by the BRI command.							
Example	> RANGE BRI < r:BRI=N, -20, 20 * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE CONT**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Contrast setting range request						
Format	**RANGE□CONT**						
Response	**r:CONT=N, \<Minimum setting value\>, \<Maximum setting value\>** For all other responses, refer to "Error List."						Number

Description	This inquires about the range within which the contrast can be set.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	   A "busy" response is given while the zoom or focus lens is being driven.
	   (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 The contrast can be set by the CONT command.						

Example	> RANGE CONT < r:CONT=N, -20, 20 * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE SHARP**	~~Mode~~	~~Control~~	~~Setting~~	Reference

Function	Sharpness setting range request	
Format	**RANGE□SHARP**	
Response	**r:SHARP=N, <Minimum setting value>, <Maximum setting value>** For all other responses, refer to "Error List."	Number
Description	This inquires about the range within which the sharpness can be set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. 　A "busy" response is given while the zoom or focus lens is being driven. 　(Refer to the ZCONTDRV command and FCONTDRV command.) -2 The sharpness can be set by the SHARP command.	
Example	> RANGE SHARP < r:SHARP=N, -4, 4 * Commands are indicated by ">", and responses are indicated by "<".	

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	−	−	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE GAMMA			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Gamma adjustment range request						
Format	**RANGE□GAMMA**						
Response	**r:GAMMA=N, <Minimum setting value>, <Maximum setting value>** For all other responses, refer to "Error List."						Number

Description	This inquires about the range within which the gamma can be adjusted.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	   A "busy" response is given while the zoom or focus lens is being driven.
	   (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 The gamma adjustment value can be set by the GAMMA command.						

Example	> RANGE GAMMA < r:GAMMA=N, -4, 4 * Commands are indicated by ">", and responses are indicated by "<".						
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE DGAMMA**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Dynamic gamma setting option request						
Format	**RANGE□DGAMMA**						
Response	**r:DGAMMA=l, \<Setting option 1\>, \<Setting option 2\>, …, \<Setting option n\>** For all other responses, refer to "Error List."						ID

Description	This inquires about the parameter options which enable the dynamic gamma to be set.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	  A "busy" response is given while the zoom or focus lens is being driven.
	  (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 The dynamic gamma setting value can be selected by the DGAMMA command.						

Example	> RANGE DGAMMA < r:DGAMMA=l, 0, 1 * Commands are indicated by ">", and responses are indicated by "<".						
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE PROG**				~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Progressive setting option request							
Format	**RANGE□PROG**							
Response	**r:PROG=l, <Setting option 1>, <Setting option 2>, …, <Setting option n>** For all other responses, refer to "Error List."						ID	

Description	This inquires about the parameter options which enable the progressive setting to be selected.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	    A "busy" response is given while the zoom or focus lens is being driven.
	    (Refer to the ZCONTDRV command and FCONTDRV command.)
	    With some input signals, it may not be possible to make this inquiry.
	-2 The progressive setting can be selected by the PROG command.							

Example	> RANGE PROG < r:PROG=l, 0, 1, 2 * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	O	O	O	O				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	×	×	×	O	O	O	–	–	×	O	×	
SX6 SX60 X600	×	O	×	×	×	×	O	O	O	×	×	×	O	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE WB**					~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Screen color correction option request								
Format	**RANGE□WB**								
Response	**r:WB=I, \<Setting option 1\>, \<Setting option 2\>, …, \<Setting option n\>** For all other responses, refer to "Error List."								ID
Description	This inquires about the parameter options which enable the screen color to be corrected. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The screen color correction can be set by the WB command.								
Example	> RANGE WB < r:WB=I, NORMAL, GREENBOARD, ADJUST * Commands are indicated by ">", and responses are indicated by "<".								
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**					
	O	O	O	O					

Supported Command States

Model	Power			Input								None	Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART		Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE WBRGB**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Screen color correction (adjustment) range request						
Format	**RANGE□WBRGB**						
Response	**r:WBRGB=N, <R minimum value>, <R maximum value>, <G minimum value>, <G maximum value>, <B minimum value>, <B maximum value>** For all other responses, refer to "Error List."					Number	
Description	This inquires about the range within which the screen color correction (adjustment) can be set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The screen color correction (adjustment) can be set by the WBRGB command.						
Example	> RANGE WBRGB < r:WBRGB=N, -20, 20, -20, 20, -20, 20 * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE SAT			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Color saturation setting range request						
Format	**RANGE□SAT**						
Response	**r:SAT=N, <Minimum setting value>, <Maximum setting value>** For all other responses, refer to "Error List."						Number
Description	This inquires about the range within which the color saturation can be set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) With some input signals, it may not be possible to make this inquiry. -2 The color saturation can be set by the SAT command.						
Example	> RANGE SAT < r:SAT=N, -20, 20 * Commands are indicated by ">", and responses are indicated by "<".						
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	×	×	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	×	×	×	○	○	○	×	×	○	○	×	

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE HUE**				~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Hue setting range request							
Format	**RANGE□HUE**							
Response	**r:HUE=N, <Minimum setting value>, <Maximum setting value>** For all other responses, refer to "Error List."							Number
Description	This inquires about the range within which the hue can be set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) With some input signals, it may not be possible to make this inquiry. -2 The hue can be set by the HUE command.							
Example	> RANGE HUE < r:HUE=N, -20, 20 * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	×	×	×	○	–	–	–	–	○	○	×	
							–	○	○			×			
SX6 SX60 X600	×	○	×	×	×	×	○	–	–	×	×	○	○	×	
							–	○	○			×			

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'INVALID_SOURCE' is returned as an error response.

* If the necessary signals are not input, 'INVALID_SIGNAL (*****)' or 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE RGBGAIN				~~Mode~~	~~Control~~	~~Setting~~	Reference

Function	RGB gain adjustment range request

Format	**RANGE□RGBGAIN**

Response	**r:RGBGAIN=N, <R minimum value>, <R maximum value>, <G minimum value>, <G maximum value>, <B minimum value>, <B maximum value>** For all other responses, refer to "Error List."	Number

Description	This command is used to inquire about the range in which the RGB gain adjustment can be set. (1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) (2) The RGB gain can be set using the RGBGAIN command.

Example	> RANGE RGBGAIN < r:RGBGAIN=N, -20, 20, -20, 20, -20, 20 *Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 O1. OO**	SX6 O1. O1**	SX60 O1. O1**	X600 O1. O1**			
	×	○	○	○			
	When a command is not supported, "e:000A INVALID_PARAMETER" is returned.						

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	−	−	−	−	−	−	−	−	−	−	−	−	−	−	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE RGBOFFSET			~~Mode~~	~~Control~~	~~Setting~~	Reference

Function	RGB offset adjustment range inquiry

Format	**RANGE□RGBOFFSET**

Response	**r:RGBOFFSET=N, \<R minimum value\>, \<R maximum value\>, \<G minimum value\>, \<G maximum value\>, \<B minimum value\>, \<B maximum value\>** For all other responses, refer to "Error List."	Number

Description	This command is used to inquire about the current RGB offset adjustment values. (1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. 　　However, a "busy" response is given while the zoom or focus lens is being driven. 　　(Refer to the ZCONTDRV command and FCONTDRV command.) (2) The RGB offset can be set using the RGBOFFSET command.

Example	> RANGE RGBOFFSET < r:RGBOFFSET=N, -20, 20, -20, 20, -20, 20 *Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**			
	×	〇	〇	〇			
When a command is not supported, "e:000A INVALID_PARAMETER" is returned.							

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SX6 SX60 X600	×	〇	×	〇	〇	〇	〇	〇	〇	〇	〇	〇	〇	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	**RANGE ACADJUST**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Advanced color adjustment option request						
Format	**RANGE□ACADJUST**						
Response	**r:ACADJUST=I, \<Setting option 1\>, \<Setting option 2\>, …, \<Setting option n\>** For all other responses, refer to "Error List."						ID

Description	This inquires about the parameter options which enable the advanced color adjustment to be set.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	  A "busy" response is given while the zoom or focus lens is being driven.
	  (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 The advanced color adjustment can be set by the ACADJUST command.						

Example	> RANGE ACADJUST < r:ACADJUST=I, NOCORRECT, MEM_L, MEM_M, MEM_H, 6AX * Commands are indicated by ">", and responses are indicated by "<".						
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	×	×	×			
	When a command is not supported, "e:000A INVALID_PARAMETER" is returned.						

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	×	×	×	O	O	O	–	–	O	O	×	
SX6 SX60 X600	–	–	–	–	–	–	–	–	–	–	–	–	–	–	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE MEMCADJ				~~Mode~~	~~Control~~	~~Setting~~	Reference

Function	Memory color adjustment setting option request

Format	RANGE□MEMCADJ

Response	r:MEMCADJ=I, <Setting option 1>, <Setting option 2>, ···, <Setting option n> For all other responses, refer to "Error List."	ID

Description	This command is used to inquire about the parameter options which enable the memory color adjustment to be set. (1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. 　　However, a "busy" response is given while the zoom or focus lens is being driven. 　　（Refer to the ZCONTDRV command and FCONTDRV command.　） (2) The memory color adjustment can be set using the MEMCADJ command.

Example	＞ RANGE MEMCADJ ＜ r:MEMCADJ=I, OFF, MEM_L, MEM_M, MEM_H *Commands are indicated by "＞", and responses are indicated by "＜".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	×	○	○	○			
	When a command is not supported, "e:000A INVALID_PARAMETER" is returned.						

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE 6AXADJ				~~Mode~~	~~Control~~	~~Setting~~	Reference

Function	6-axis adjustment option inquiry

Format	RANGE□6AXADJ

Response	r:6AXADJ=I, <Setting option 1>, <Setting option 2>, …, <Setting option n> For all other responses, refer to "Error List."	ID

Description	This command is used to inquire about the parameter options which enable the 6-axis adjustment to be set. (1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) (2) ON or OFF for the 6-axis adjustment can be set using the 6AXADJ command.

Example	> RANGE 6AXADJ < r:6AXADJ=I, ON, OFF *Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**				
	×	○	○	○				
	When a command is not supported, "e:000A INVALID_PARAMETER" is returned.							

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	**RANGE 6AXR-6AXY**				~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	6-axis correction R to Y hue/color saturation setting range request							
Format	R range inquiry G range inquiry B range inquiry C range inquiry M range inquiry Y range inquiry **RANGE□6AXR RANGE□6AXG RANGE□6AXB RANGE□6AXC RANGE□6AXM RANGE□6AXY**							
Response	**r:6AXR(G,B,C,M,Y)=N, \<Minimum hue value\>, \<Maximum hue value\>,** **\<Minimum color saturation value\>, \<Maximum color saturation value\>** For all other responses, refer to "Error List."							Number

Description	This inquires about the range within which the 6-axis correction R to Y hue and color saturation can be set.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	   A "busy" response is given while the zoom or focus lens is being driven.
	   (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 The 6-axis correction R to Y can be set by the 6AXR to Y command.							

Example	> RANGE 6AXC < r:6AXC=N, -20, 20, -20, 20 * Commands are indicated by ">", and responses are indicated by "<".							

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE LAMP**					~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Lamp output setting option request								
Format	**RANGE□LAMP**								
Response	**r:LAMP=l, <Setting option 1>, <Setting option 2>, …, <Setting option n>** For all other responses, refer to "Error List."								ID
Description	This inquires about the parameter options which enable the lamp output to be set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The lamp output can be set by the LAMP command.								
Example	> RANGE LAMP < r:LAMP=l, NORMAL, SILENT * Commands are indicated by ">", and responses are indicated by "<".								
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**					
	○	○	○	○					

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	✕	○	✕	○	○	○	○	○	○	–	–	○	○	✕	
SX6 SX60 X600	✕	○	✕	○	○	○	○	○	○	○	○	○	○	✕	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE VKS/HKS**		~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Vertical/horizontal keystone setting range request					

Format	Vertical keystone setting range inquiry **RANGE☐VKS**	Horizontal keystone setting range inquiry **RANGE☐HKS**	
Response	**r:VKS=N, <Minimum setting value>, <Maximum setting value>** **r:HKS=N, <Minimum setting value>, <Maximum setting value>** For all other responses, refer to "Error List."	Number

Description	These inquire about the ranges within which the vertical and horizontal keystone can be set.
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The vertical and horizontal keystone settings can be selected by the VKS and HKS commands, respectively.

Example	> RANGE HKS < r:HKS=N, -30, 30 * Commands are indicated by ">", and responses are indicated by "<".

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	×	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* If the necessary signals are not input, 'NO_SIGNAL' is returned.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE AVOL**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Audio volume setting range request						
Format	**RANGE□AVOL**						
Response	**r:AVOL=N, <Minimum setting value>, <Maximum setting value>** For all other responses, refer to "Error List."						Number

Description	This inquires about the range within which the audio volume can be set.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	   A "busy" response is given while the zoom or focus lens is being driven.
	   (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 The audio volume can be set by the AVOL command.						

Example	> RANGE AVOL < r:AVOL=N, 0, 20 * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE MUTE**						~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Mute control setting option request									
Format	**RANGE□MUTE**									
Response	**r:MUTE=I, <Setting option 1>, <Setting option 2>, …, <Setting option n>** For all other responses, refer to "Error List."								ID	
Description	This inquires about the parameter options which enable mute control to be set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 Mute control can be set by the MUTE command.									
Example	> RANGE MUTE < r:MUTE=I, ON, OFF * Commands are indicated by ">", and responses are indicated by "<".									
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**						
	○	○	○	○						

Supported Command States

Model	Power			Input								None	Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE BVOL			Mode	Control	Setting	Reference
Function	Beep sound setting option request						
Format	**RANGE□BVOL**						
Response	**r:BVOL=I, \<Setting option 1\>, \<Setting option 2\>, …, \<Setting option n\>** For all other responses, refer to "Error List."					ID	
Description	This inquires about the parameter options which enable the beep sound to be set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The beep sound can be set using the BVOL command.						
Example	> RANGE BVOL < r:BVOL=I, 0, 1 * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE IMAGEFLIP**		~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Flip display setting option request					
Format	**RANGE☐IMAGEFLIP**					
Response	**r:IMAGEFLIP=I, \<Setting option 1\>, \<Setting option 2\>, …, \<Setting option n\>** For all other responses, refer to "Error List."				ID	
Description	This inquires about the parameter options which enable the flip display to be set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 The flip display can be set using the IMAGEFLIP command.					
Example	> RANGE IMAGEFLIP < r:IMAGEFLIP=I, NONE, CEILING, REAR, REAR_SEILING * Commands are indicated by ">", and responses are indicated by "<".					

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input								None	Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART		Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE PMM**				Mode	~~Control~~	~~Setting~~	Reference
Function	Power management setting option request							
Format	**RANGE□PMM**							
Response	**r:PMM=I, <Setting option 1>, <Setting option 2>, ..., <Setting option n>** For all other responses, refer to "Error List."						ID	
Description	This inquires about the parameter options which enable power management to be set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 Power management can be set by the PMM command.							
Example	> RANGE PMM < r:PMM=I, OFF, STANDBY, EXIT * Commands are indicated by ">", and responses are indicated by "<".							
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE PJON**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Display screen at startup setting option request						
Format	**RANGE□PJON**						
Response	**r:PJON=I, <Setting option 1>, <Setting option 2>, …, <Setting option n>** For all other responses, refer to "Error List."						ID

Description	This inquires about the parameter options which enable the display screen setting at startup to be set.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	  A "busy" response is given while the zoom or focus lens is being driven.
	  (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 The setting for the screen displayed at startup can be set by the PJON command.						

Example	> RANGE PJON < r:PJON=I, CANON, SKIP, LOGO * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE NOSIG**	~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Display screen when there are no signals setting option request				
Format	**RANGE☐PJON**				
Response	**r:NOSIG=I, \<Setting option 1\>, \<Setting option 2\>, …, \<Setting option n\>** For all other responses, refer to "Error List."			ID	

Description	This inquires about the parameter options which enable the display screen when there are no signals to be set.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	  A "busy" response is given while the zoom or focus lens is being driven.
	  (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 The display screen when there are no signals can be set by the NOSIG command.				

Example	> RANGE NOSIG < r:NOSIG=I, BLACK, BLUE, LOGO * Commands are indicated by ">", and responses are indicated by "<".				

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE NOSHOW**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Display screen when nothing is shown setting option request						
Format	**RANGE□NOSHOW**						
Response	**r:NOSHOW=I, <Setting option 1>, <Setting option 2>, …, <Setting option n>** For all other responses, refer to "Error List."					ID	
Description	This inquires about the parameter options which enable the display screen when nothing is shown to be set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. 　A "busy" response is given while the zoom or focus lens is being driven. 　(Refer to the ZCONTDRV command and FCONTDRV command.) -2 The current display screen when nothing is shown can be set by the NOSHOW command.						
Example	> RANGE NOSHOW < r:NOSHOW=I, BLACK, BLUE, LOGO * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE LOGOPOS**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	User image position setting option inquiry						
Format	**RANGE□LOGOPOS**						
Response	**r:LOGOPOS=l, <Setting option 1>, <Setting option 2>, …, <Setting option n>** For all other responses, refer to "Error List."						ID
Description	This inquires about the parameter options which enable the user screen (logo) display position to be set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. A "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) -2 An inquiry cannot be made if the user image has not been registered. (The "e:1002 NO_LOGO_CAPTURED" error is returned.) -3 The user image position can be set by the LOGOPOS command.						
Example	> RANGE LOGOPOS < r:LOGOPOS=l, UPPER_L, UPPER_R, CENTER, LOWER_L, LOWER_R * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	○	○	○	○				

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	RANGE LANG			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Language setting option request						
Format	**RANGE□LANG**						
Response	**r:LANG=l, \<Setting option 1\>, \<Setting option 2\>, …, \<Setting option n\>** For all other responses, refer to "Error List."					ID	

Description	This inquires about the parameter options which enable the language to be set.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	  A "busy" response is given while the zoom or focus lens is being driven.
	  (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 The language can be set by the LANG command.						

Example	> RANGE LANG < r:LANG=l,ENG,FRA,GER,ITA,SPA,POR,SWE,DUT,RUS,CHS,CHT,KOR,JPN,FIN,NOR,TUR, POL,HUN,CZE,DAN * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input								None	Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART		Remote	Local	
SX50	×	○	×	○	○	○	○	○	○	–	–	○	○	×	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE TERMINAL**	~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Terminal setting option request				
Format	**RANGE□TERMINAL**				
Response	**r:TERMINAL=I, <Setting option 1>, <Setting option 2>, …, <Setting option n>** For all other responses, refer to "Error List."			ID	

Description	This inquires about the parameter options which enable the terminal to be set.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	    A "busy" response is given while the zoom or focus lens is being driven.
	    (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 The terminal can be set by the TERMINAL command.				

Example	> RANGE TERMINAL < r:TERMINAL=I, IN, OUT * Commands are indicated by ">", and responses are indicated by "<".				

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**				
	O	×	×	×				
	When a command is not supported, "e:000A INVALID_PARAMETER" is returned.							

Supported Command States

Model	Parameter	Power			Input									Mode	
		OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local
SX50	IN	×	O	×	O	O	O	O	O	O	–	–	O	O	×
	OUT	×	O	×	O	O	×	×	O	O	–	–	O	O	×
SX6 SX60 X600	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

* If the command cannot be supported, 'INVALID_MODE,' 'NOT_POWER_SUPPLIED' or 'TERMINAL_OUT' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE KEYLOCK**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Key lock setting option request						
Format	**RANGE☐KEYLOCK**						
Response	**r:KEYLOCK=I, \<Setting option 1\>, \<Setting option 2\>, …, \<Setting option n\>** For all other responses, refer to "Error List."						ID
Description	This inquires about the parameter options which enable key lock to be set. -1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. 　A "busy" response is given while the zoom or focus lens is being driven. 　(Refer to the ZCONTDRV command and FCONTDRV command.) -2 Key lock can be set by the KEYLOCK command.						
Example	> RANGE KEYLOCK < r:KEYLOCK=I, MAIN, RC * Commands are indicated by ">", and responses are indicated by "<".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	O	O	O	O			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	×	O	×	O	O	O	O	O	O	–	–	O	O	×	
SX6 SX60 X600	×	O	×	O	O	O	O	O	O	O	O	O	O	×	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE RCCH**			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Remote control setting option request						
Format	**RANGE□RCCH**						
Response	**r:RCCH=l, \<Setting option 1\>, \<Setting option 2\>, …, \<Setting option n\>** For all other responses, refer to "Error List."						ID

Description	This inquires about the parameter options which enable remote control to be set.
	
	-1 This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time.
	    A "busy" response is given while the zoom or focus lens is being driven.
	    (Refer to the ZCONTDRV command and FCONTDRV command.)
	-2 Remote control can be set by the RCCH command.						

Example	> RANGE RCCH < r:RCCH=l, 1, 2 * Commands are indicated by ">", and responses are indicated by "<".						
Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	○	○	○	○			

Supported Command States

Model	Power			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	✗	○	✗	○	○	○	○	○	○	–	–	○	○	✗	
SX6 SX60 X600	✗	○	✗	○	○	○	○	○	○	○	○	○	○	✗	

* If a command cannot be supported, 'INVALID_MODE' or 'NOT_POWER_SUPPLIED' is returned as an error response.

* "i:BUSY" may be returned if the power status is being switched.

Commands	**RANGE GUIDE**					~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Guide setting enable option request								
Format	**RANGE□GUIDE**								
Response	**r:GUIDE=I, <Setting option 1>, <Setting option 2>, …, <Setting option n>** For all other responses, refer to "Error List."							ID	
Description	This command is used to inquire about the parameter options which enable the guide to be set. (1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. However, a "busy" response is given while the zoom or focus lens is being driven. (Refer to the ZCONTDRV command and FCONTDRV command.) (2) The guide can be set using the GUIDE command.								
Example	> RANGE GUIDE < r:GUIDE=I, ON, OFF *Commands are indicated by ">", and responses are indicated by "<".								
Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**					
	×	○	○	○					
	When a command is not supported, "e:000A INVALID_PARAMETER" is returned.								

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	–	–	—	—	—	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE DPON				~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Direct power-on setting inquiry							
Format	RANGE□DPON							
Response	r:DPON=I, <Setting option 1>, <Setting option 2>, ···, <Setting option n> For all other responses, refer to "Error List."						ID	
Description	This command is used to inquire about the parameter options which enable direct power-on to be set. (1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. 　　However, a "busy" response is given while the zoom or focus lens is being driven. 　　　(Refer to the ZCONTDRV command and FCONTDRV command.　) (2) Direct power-on can be set using the DPON command.							
Example	＞ RANGE DPON ＜ r:DPON=I, ON, OFF ＊Commands are indicated by "＞", and responses are indicated by "＜".							

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**				
	×	〇	〇	〇				
	When a command is not supported, "e:000A INVALID_PARAMETER" is returned.							

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	–	–	—	—	—	
SX6 SX60 X600	×	〇	×	〇	〇	〇	〇	〇	〇	〇	〇	〇	〇	×	

＊If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

＊When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE LEDILLUMINATE			~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Emotional LED and signal sensing LED lighting setting option request						
Format	RANGE□LEDILLUMINATE						
Response	r:LEDILLUMINATE=I, <Setting option 1>, <Setting option 2>, ···, <Setting option n> For all other responses, refer to "Error List."					ID	
Description	This command is used to inquire about the parameter options which enable emotional LED and signal sensing LED lighting control to be set. (1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. 　　However, a "busy" response is given while the zoom or focus lens is being driven. 　　（Refer to the ZCONTDRV command and FCONTDRV command. ） (2) LED lighting control can be set using the LEDILLUMINATE command.						
Example	＞ RANGE LEDILLUMINATE ＜ r:LEDILLUMINATE=I, ON, OFF *Commands are indicated by "＞", and responses are indicated by "＜".						

Commands supported	SX50 01.00**	SX6 01.01**	SX60 01.01**	X600 01.01**			
	×	○	○	○			
	When a command is not supported, "e:000A INVALID_PARAMETER" is returned.						

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	―	―	―	―	―	―	―	―	―	―	―	―	―	―	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE ZSTEPDRV		~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Zoom lens step drive control option request					
Format	RANGE□ZSTEPDRV					
Response	r:ZSTEPDRV=I, \<Setting option 1\>, \<Setting option 2\>, …, \<Setting option n\> For all other responses, refer to "Error List."			ID		
Description	This command is used to inquire about the parameter options which enable the step drive of the zoom lens. (1) This inquiry can be mades when the projector is in both the **remote mode** and **power-on** status at the same time. 　　However, **a "busy" response is given if the zoom or focus lens is being driven** . 　　(Refer to the ZCONTDRV command and FCONTDRV command.) (2) Step control for the zoom lens can be exercised using the ZSTEPDRV command.					
Example	〉 RANGE ZSTEPDRV 〈 r:ZSTEPDRV=I, WIDE, TELE					

Commands supported	SX50 O1. OO**	SX6 O1. O1**	SX60 O1. O1**	X600 O1. O1**			
	×	○	○	○			
	When a command is not supported, "e:000A INVALID_PARAMETER" is returned.						

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D–RGB	A–RGB1	A–RGB2	Comp	Video	S–Video	D–Video	SCART	None	Remote	Local	
SX50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

＊If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

＊When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE ZCONTDRV		~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Zoom lens continuous drive control option request					
Format	RANGE□CONTZDRV					
Response	r:ZCONTDRV=I, \<Setting option 1\>, \<Setting option 2\>, …, \<Setting option n\> For all other responses, refer to "Error List."			ID		
Description	This command is used to inquire about the parameter options which enable the zoom lens to be driven continuously. (1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. However, **a "busy" response is given if the zoom or focus lens is being driven** . (Refer to the ZCONTDRV command and FCONTDRV command.) (2) Continuous control of the zoom lens can be exercised using the ZCONTDRV command.					
Example	> RANGE ZCONTDRV < r:ZCONTDRV=I,-STOP, WIDE, TELE					

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**			
	×	○	○	○			

When a command is not supported, "e:000A INVALID_PARAMETER" is returned.

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE FSTEPDRV			~~Mode~~	~~Control~~	~~Setting~~	Reference

Function	Focus lens step drive control option request

Format	RANGE□FSTEPDRV

Response	r:FSTEPDRV=I, <Setting option 1>, <Setting option 2>, ···, <Setting option n> For all other responses, refer to "Error List."	ID

Description	This command is used to inquire about the parameter options which enable the step drive of the focus lens. (1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. However, **a "busy" response is given if the zoom or focus lens is being driven** . (Refer to the ZCONTDRV command and FCONTDRV command.) (2) Step control for the focus lens can be exercised using the FSTEPDRV command.

Example	> RANGE FSTEPDRV < r:FSTEPDRV=I, FAR, NEAR

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**				
	×	○	○	○				
	When a command is not supported, "e:000A INVALID_PARAMETER" is returned.							

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

Commands	RANGE FCONTDRV					~~Mode~~	~~Control~~	~~Setting~~	Reference
Function	Focus lens continuous drive control option request								
Format	RANGE□FCONTDRV								
Response	r:FCONTDRV=I, <Setting option 1>, <Setting option 2>, ···, <Setting option n> For all other responses, refer to "Error List."						ID		
Description	This command is used to inquire about the parameter options which enable the focus lens to be driven continuously. (1) This inquiry can be made when the projector is in both the **remote mode** and **power-on** status at the same time. However, **a "busy" response is given if the zoom or focus lens is being driven** . (Refer to the ZCONTDRV command and FCONTDRV command.) (2) Continuous control of the focus lens can be exercised using the FCONTDRV command.								
Example	＞ RANGE FCONTDRV ＜ r:FCONTDRV=I, STOP, FAR, NEAR								

Commands supported	SX50 01. 00**	SX6 01. 01**	SX60 01. 01**	X600 01. 01**			
	×	○	○	○			
	When a command is not supported, "e:000A INVALID_PARAMETER" is returned.						

Supported Command States

Model	Power supply			Input									Mode		Remarks
	OFF	ON	PM	D-RGB	A-RGB1	A-RGB2	Comp	Video	S-Video	D-Video	SCART	None	Remote	Local	
SX50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SX6 SX60 X600	×	○	×	○	○	○	○	○	○	○	○	○	○	×	

*If a state is not supported, "INVALID_MODE" or "NOT_POWER_SUPPLIED" is returned with the Err response.

*When the power supply state is in the process of switching, an "i:BUSY" reply may be sent.

10. Error List

Item	Code	TYPE	Error character strings	(1)	(2)	(3)	(4)	Error	Remedy
				Errors supported by model					
1	0001	e	BAD_SEQUENCE	O	O	O	O	Communication sequence error	Wait until the response is received to send the command.
2	0002	e	INVALID_COMMAND	O	O	O	O	Command is invalid (undefined).	Send the correct command.
3	0003	e	INVALID_MODE	O	O	O	O	The designated command cannot be executed in this mode.	Switch the mode using the REMOTE or LOCAL command.
4	0004	e	INVALID_FORMAT	O	O	O	O	The command format is incorrect.	Send in the correct command format.
5	0005	e	NOT_POWER_SUPPLIED	O	O	O	O	Power is not being supplied.	Use the POWER ON command to turn on the power.
6	–	i	BUSY	O	O	O	O	Mode switching or processing inside the projector is underway.	Wait until the power supply state changes to "ON", "OFF", or "PMM".
7	000A	e	INVALID_PARAMETER	O	O	O	O	The parameter (type) is invalid (undefined).This includes the case when the number of parameters is incorrect.	Use the correct parameter(s).
8	000B	e	JOB_TIMEOUT	O	O	O	O	SX50 internal processing has timed out.	Resend the command.
9	–	w	USER_COMMAND_VERSION_IS_UPDATED	O	O	O	O	The user command version is being updated.	Use GET COMVER to obtain the latest user command version.
10	–	i	BUSY (FOCUS)		O	O	O	The focus lens is now being driven.	Wait until the focus lens drive stops.
		i	BUSY (ZOOM)		O	O	O	The zoom lens is now being driven.	Wait until the zoom lens drive stops.
11	F001	e	SYSTEM (UNKNOWN)	O	O	O	O	An internal error occurred.	Resend the command.
	F002	e	SYSTEM (FOCUS)		O	O	O	An error occurred in AUTOSETEXE=FOCUS.	Eliminate the cause of the error, and resend the command.
	F004	e	SYSTEM (AUTO_KEYSTONE)		O	O	O	An error occurred in AUTOSETEXE=VKS.	
	F005	e	SYSTEM (SCREEN_COLOR)		O	O	O	An error occurred in AUTOSETEXE=SCRN.	
12	E0XX	e	COMMUNICATION_ERROR	O	O	O	O	A communication protocol violation occurred in the projector.	Resend the command.
13	200X	e	INVALID_SOURCE (****)	O	O	O	O	This cannot be executed with the current input source. The current input source is indicated in parentheses.	Change the input source.
14	2010	e	NO_SIGNAL	O	O	O	O	There is no signal input.	Input the signal.
	201X	e	INVALID_SIGNAL (****)	O	O	O	O	This cannot be executed with the current input signal. The current input signal is indicated in parentheses.	Change the input signal.
15	–	i	BUSY (NOW_SETTING)	O	O	O	O	Signal setting (detection) is in progress.	Wait until the processing is completed.
		i	BUSY (POWER_MANAGEMENT_READY)	O	O	O	O	Preparing to switch to power management standby.	
		i	BUSY (INTERNAL_PROCESS)	O	O	O	O	Heavy processing is in progress.	
		i	~~BUSY (FOCUS)~~		O	O	O	~~The focus lens is now being driven.~~	~~Wait until the focus lens drive stops.~~
		i	~~BUSY (ZOOM)~~		O	O	O	~~The zoom lens is now being driven.~~	~~Wait until the zoom lens drive stops.~~
16	0801 0802	e	INVALID_VALUE	O	O	O	O	Numerical parameters are invalid or outside the range.	Use the RANGE command to obtain the parameter range, and then use a parameter within the range.
17	1001	e	TERMINAL_OUT	O				The input cannot be selected since the terminal is set to output.	Use the TERMINAL command to set the terminal to input, and then select the input again.
	1002	e	NO_LOGO_CAPTURED	O	O	O	O	Processing cannot be executed since the user image is not registered.	Register the user image.
	1003	e	IP_NOT_AVAILABLE	O	O	O	O	IP conversion cannot be performed.	Change to the correct input signal.
	1004	e	POWER_MANEGEMENT_OFF		O	O	O	DPON cannot be set to ON when PMM is OFF.	Set DPON to ON when PMM is not OFF.
	1005	e	DIRECT_POWER_ON		O	O	O	PMM cannot be set to OFF when DPON is ON.	Set DPON to OFF.
	1006	e	NOW_BLANK		O	O	O	AUTOSETEXE=FOCUS or SCRN cannot be executed since BLANK is ON.	After setting BLANK to ON, resend the command.
	203X	e	INVALID_RESOLUTION (***)	O	O	O	O	The input signal resolution is not correct.	Change to the correct resolution of the input signal.
18	–	i	INPUT_NOT_FOUND		O	O	O	The input was not switched since no input signal was found with AUTOSETEXE=INPUT.	There is no action to be taken since the status has been notified.

※ The error code is expressed as a four-digit hexadecimal character string. 'X' is a number from '0' to '9' or letter from 'A' to 'F'.
※ Errors with the newer item numbers have higher priority. (When there is more than one error, the highest level error is returned. However, error priority is the same within the same item number.)
※ Given below is the correspondence between the numbers (1) to (4) in the "Errors supported by model" column and the models concerned.

(1)	SX50
(2)	SX6
(3)	SX60
(4)	X600

11. Other

Use the remote control emulation function (RC command) in Local mode for the following functions.

Function	RC command parameter
No display	NOSHOW
Freeze screen	FREEZE
Digital zoom	DZOOM_P, DZOOM_M
Presentation timer	P_TIMER
Spotlight function	SPOT

Appendix 1 Reset Items

What is initialized by the "RESET" command is set forth in the table below.

ALL	SYSTEM	IMAGE	Item	Setting	Reference command
●			Input source switching	A-RGB2	INPUT
●			Toggle button recording	C1:DRGB C2:ARGB2 V :VIDEO	------------
●	●		ARGB manual for input signal setting		
●	●		Input signal select	AUTO	SEL
●	●		Input signal select (PC)	not selected	------------
●	●		Screen settings	FULL	ASPECT
●	●		Menu display position	CENTER	------------
●	●		Logo included/not included	not included	------------
●	●		User image position	CENTER	LOGOPOS
●	●		Screen in no show status	BLACK	NOSHOW
●	●		No signal screen	BLUE	NOSIG
●	●		Startup screen	CANON	PJON
●	●		Flip display	NONE	IMAGEFLIP
●	●		Image mode	STANDARD	IMAGE

What is initialized in the image modes

ALL	SYSTEM	IMAGE	Item	STANDARD	PRESEN	CINEMA	SRGB	Reference command
●	●	●	Brightness	0	0	0	0	BRI
●	●	●	Contrast	0	0	0	0	CONT
●	●	●	Sharpness	0	0	0	0	SHARP
●	●	●	Gamma	0	0	0	0	GAMMA
●	●	●	Dynamic gamma	0	0	0	0	DGAMMA
●	●	●	Screen color correction	NORMAL	NORMAL	NORMAL	NORMAL	WB
●	●	●	〝adjustment values (R,G,B)	0, 0, 0	0, 0, 0	0, 0, 0	0, 0, 0	WBRGB
●	●	●	Advanced color adjustment	NOCORRECT	NOCORRECT	NOCORRECT	NOCORRECT	ACADJUST
●	●	●	6-axis adjustment (SAT,HUE)	0, 0	0, 0	0, 0	0, 0	6AXR~Y
●	●	●	Lamp mode	NORMAL	NORMAL	SILENT	NORMAL	LAMP
●	●	●	Saturation	0	0	0	0	SAT
●	●	●	Hue	0	0	0	0	HUE
●	●	●	Progressive	1	1	1	1	PROG

ALL	SYSTEM	IMAGE	Item	Setting	Reference command
●	●		Terminal setting	IN	TERMINAL
●	●		Power management	OFF	PMM
●	●		Electronic sound	1	BVOL
●	●		Key lock	OFF	KEYLOCK
●	●		Password on/off	OFF	------------
●	●		Password	None	------------
●	●		Remote control	CH1	RCCH
●			Language	ENG	LANG
●	●		Menu category item	not selected	------------
●	●		Last spotlight	circle(large)	------------
●	●		Spotlight OSD position	Initial position	------------
●	●		Volume	10	AVOL
●	●		Keystone	0,0 (HKS,VKS)	HKS, VKS
●	●		P-Timer	0	------------
●	●		Mute	OFF	MUTE
●	●		Lamp ready indicator off flag	Off	------------

Appendix 2 Table of Response Patterns by Command (1/3) 2005.11.14

Item	Commands	SX50 (01.00**)	SX6 SX60 X600 (01.01**)	Response not send	LOCAL OFF	OFF2ON	ON	ON2OFF	ON2PMM	PMM	PMM2ON	REMOTE OFF	OFF2ON	ON: DG	A1	A2	CM	V	SV	DV	SC	X	BLANK ON	BLANK OFF	ON2OFF	ON2PMM	PMM	PMM2ON
1	REMOTE	O	O																									
2	LOCAL	O	O																									
3	POWER ON / OFF	O	O																									
4	AUTOSETEXE FOCUS / VKS / SCRN / INPUT	×	O																				╱ / ╱					
5	BLANK	×	O																									
6	INPUT	O	O																									
7	AUTOPC	O	O																				←	←				
8	DOTS	O	O																				←	←				
9	TRACK	O	O																				←	←				
10	HPOS	O	O																				←	←				
11	VPOS	O	O																				←	←				
12	HPIX	O	O																				←	←				
13	VPIX	O	O																				←	←				
14	SEL	O	O																				←	←				
15	ASPECT FULL / NORMAL / WIDE / TRUE / AUTO	O	O (mixed ×)															−	−				←	←				
16	IMAGE	O	O																									
17	BRI	O	O																									
18	CONT	O	O																									
19	SHARP	O	O																									
20	GAMMA	O	O																									
21	DGAMMA	O	O																									
22	PROG	O	O																				←	←				
23	WB	O	O																									
24	WBRGB	O	O																									
25	SAT	O	O																				←	←				
26	HUE	O	O															−	−				←	←				
27	RGBGAIN	×	O																									
28	RGBOFFSET	×	O																									
29	ACADJUST	O	×																				−	−				
30	MEMCADJ	×	O																									
31	6AXADJ	×	O																									
32	6AXR~6AXY	O	O																									
33	LAMP	O	O																									
34	RESET	O	O																									
35	VKS	O / −	− / O																					−	−			
36	HKS	O / −	− / O																					−	−			
37	AVOL	O	O																									
38	MUTE	O	O																									
39	BVOL	O	O																									
40	IMAGEFLIP	O	O																									
41	PMM	O	O																									
2	PJON	O	O																									
43	NOSIG	O	O																									
44	NOSHOW	O	O																									
45	LOGOPOS	O	O																									
46	LANG	O	O																									
47	TERMINAL IN / OUT	O	×																				− / −	− / −	− / −	− / −		
48	KEYLOCK	O	O																									
49	RCCH	O	O																									
50	GUIDE	×	O																									
51	DPON	×	O																									
52	LEDILLUMINATE	×	O																									
53	ZSTEPDRV	×	O																									
54	ZCONTDRV	×	O																									
55	FSTEPDRV	×	O																									
56	FCONTDRV	×	O																									
57	RC	O	O																									
58	MAIN	O	O																									
59	Null	O	O																									

Appendix 2 Table of Response Patterns by Command (2/3)

Item	Commands	SX50 (01.00**)	SX6 SX60 X600 (01.01**)	Resp. not send	L:OFF	L:OFF2ON	L:ON	L:ON2OFF	L:ON2PMM	L:PMM	L:PMM2ON	R:OFF	R:OFF2ON	DG	A1	A2	CM	V	SV	DV	SC	X	BLANK ON	BLANK OFF	R:ON2OFF	R:ON2PMM	R:PMM	R:PMM2ON
60	GET MODE	O	O																									
61	GET POWER	O	−																						−	−			
61	GET POWER	−	O																						−	−			
62	GET BLANK	×	O																										
63	GET INPUT	O	−																						−	−			
63	GET INPUT	−	O																						−	−			
64	GET DOTS	O	O																				←	←				
65	GET TRACK	O	O																				←	←				
66	GET HPOS	O	O																				←	←				
67	GET VPOS	O	O																				←	←				
68	GET HPIX	O	O																				←	←				
69	GET VPIX	O	O																				←	←				
70	GET SEL	O	O																				←	←				
71	GET ASPECT	O	O																									
72	GET IMAGE	O	O																									
73	GET BRI	O	O																									
74	GET CONT	O	O																									
75	GET SHARP	O	O																									
76	GET GAMMA	O	O																									
77	GET DGAMMA	O	O																									
78	GET PROG	O	O																				←	←				
79	GET WB	O	O																									
80	GET WBRGB	O	O																									
81	GET SAT	O	O																									
82	GET HUE	O	O																−	−			←	←				
83	GET RGBGAIN	×	O																									
84	GET RGBOFFSET	×	O																									
85	GET ACADJUST	O	×																	−	−					−	−		
86	GET MEMCADJ	×	O																									
87	GET 6AXADJ	×	O																									
88	GET 6AXR~Y	O	O																									
89	GET VKS	O	−																						−	−			
89	GET VKS	−	O																						−	−			
90	GET HKS	O	−																						−	−			
90	GET HKS	−	O																						−	−			
91	GET AVOL	O	O																									
92	GET MUTE	O	−																						−	−			
92	GET MUTE	−	O																						−	−			
93	GET BVOL	O	O																									
94	GET IMAGEFLIP	O	O																									
95	GET PMM	O	O																									
96	GET PJON	O	O																									
97	GET NOSIG	O	O																									
98	GET NOSHOW	O	O																									
99	GET LOGOPOS	O	O																									
100	GET LANG	O	O																									
101	GET LAMP	O	O																									
102	GET TERMINAL	O	×																						−	−			
103	GET KEYLOCK	O	O																									
104	GET RCCH	O	O																									
105	GET GUIDE	×	O																									
106	GET DPON	×	O																									
107	GET LEDILLUMINATE	×	O																									
112	GET NOSHOWSTATE	×	O																									
113	GET FREEZE	×	O																									
114	GET SIGNALSTATUS	O	−																						−	−			
114	GET SIGNALSTATUS	−	O																						−	−			
115	GET LAMPCOUNTER	O	−																						−	−			
115	GET LAMPCOUNTER	−	O																						−	−			
116	GET ERR	O	−																						−	−			
116	GET ERR	−	O																						−	−			
117	GET PRODCODE	O	−																						−	−			
117	GET PRODCODE	−	O																						−	−			
118	GET ROMVER	O	−																						−	−			
118	GET ROMVER	−	O																						−	−			
119	GET COMVER	O	−																						−	−			
119	GET COMVER	−	O																						−	−			

Appendix 2 Table of Response Patterns by Command (3/3)

Item	Commands	SX50 01.00**	SX6 SX60 X600 01.01**
120	RANGE POWER	O	O
121	RANGE AUTOSETEXE	×	O
122	RANGE BLANK	×	O
123	RANGE INPUT	O	O
124	RANGE DOTS	O	O
125	RANGE TRACK	O	O
126	RANGE HPOS	O	O
127	RANGE VPOS	O	O
128	RANGE HPIX	O	O
129	RANGE VPIX	O	O
130	RANGE SEL	O	O
131	RANGE ASPECT	O	O
132	RANGE IMAGE	O	O
133	RANGE BRI	O	O
134	RANGE CONT	O	O
135	RANGE SHARP	O	O
136	RANGE GAMMA	O	O
137	RANGE DGAMMA	O	O
138	RANGE PROG	O	O
139	RANGE WB	O	O
140	RANGE WBRGB	O	O
141	RANGE SAT	O	O
142	RANGE HUE	O	O
143	RANGE RGBGAIN	×	O
144	RANGE RGBOFFSET	×	O
145	RANGE ACADJUST	O	×
146	RANGE MEMCADJ	×	O
147	RANGE 6AXADJ	×	O
148	RANGE 6AXR~Y	O	O
149	RANGE VKS	O	O
150	RANGE HKS	O	O
151	RANGE AVOL	O	O
152	RANGE MUTE	O	O
153	RANGE BVOL	O	O
154	RANGE IMAGEFLIP	O	O
155	RANGE PMM	O	O
156	RANGE PJON	O	O
157	RANGE NOSIG	O	O
158	RANGE NOSHOW	O	O
159	RANGE LOGOPOS	O	O
160	RANGE LANG	O	O
161	RANGE LAMP	O	O
162	RANGE TERMINAL	O	×
163	RANGE KEYLOCK	O	O
164	RANGE RCCH	O	O
165	RANGE GUIDE	×	O
166	RANGE DPON	×	O
167	RANGE LEDILLUMINATE	×	O
168	RANGE ZSTEPDRV	×	O
169	RANGE ZCONTDRV	×	O
170	RANGE FSTEPDRV	×	O
171	RANGE FCONTDRV	×	O

Column groups: LOCAL (OFF, OFF2ON, ON, ON2OFF, ON2PMM, PMM, PMM2ON); REMOTE (OFF, OFF2ON, ON [Input signal: DG, A1, A2, CM, V, SV, DV, SC, X; BLANK: ON, OFF], ON2OFF, ON2PMM, PMM, PMM2ON)

Response
- OK or Normal response
- BUSY
- INVALID_MODE
- INVALID_SOURCE
- NO_SIGNAL
- NOT_POWER_SUPPLIED
- BAD_SEQUENCE
- NO_BLANK
- INPUT_NOT_FOUND
- No response

Status

OFF	Power Off
OFF2ON	Transitioning from power off→on
ON	Power ON
ON2OFF	Transitioning from power on→off
ON2PMM	Transitioning from power on→standby mode
PMM	Standby
PMM2ON	Transitioning from standby→power on

Input signal

DG	Digital RGB	V	Video
A1	Analog RGB1	SV	S-Video
A2	Analog RGB2	DV	Digital Video
CM	Component	SC	SCART
V	Video	×	No signal
SV	S-Video		